

1-1-1905

Collection Book 1905

Cyrus Guernsey Pringle

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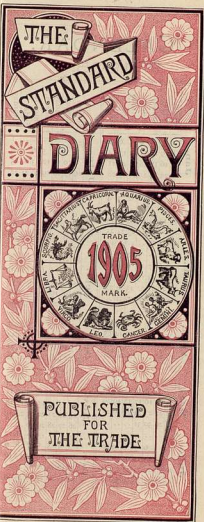
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C. G. Pringle,
Botanical Collector
of
Harvard University
and of
The University of Vermont
Burlington,
Vermont,
America.



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CALENDAR.
1905.

June.	May.	April.	March.	Feb.	Jan.						
1	7	4	1	11	8	1					
2	8	5	2	12	9	2					
3	9	6	3	13	10	3					
4	10	7	4	14	11	4					
5	11	8	5	15	12	5					
6	12	9	6	16	13	6					
7	13	10	7	17	14	7					
8	14	11	8	18	15	8					
9	15	12	9	19	16	9					
10	16	13	10	20	17	10					
11	17	14	11	21	18	11					
12	18	15	12	22	19	12					
13	19	16	13	23	20	13					
14	20	17	14	24	21	14					
15	21	18	15	25	22	15					
16	22	19	16	26	23	16					
17	23	20	17	27	24	17					
18	24	21	18	28	25	18					
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20	26	23	20	30	27	20					
21	27	24	21	31	28	21					
22	28	25	22		29	22					
23	29	26	23		30	23					
24	30	27	24		31	24					
25	31	28	25			25					
26		29	26			26					
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31			31			31					

CALENDAR.
1906.

June.	May.	April.	March.	Feb.	Jan.	Sunday.
1	6	1	4	5	1	1
2	7	2	5	6	2	2
3	8	3	6	7	3	3
4	9	4	7	8	4	4
5	10	5	8	9	5	5
6	11	6	9	10	6	6
7	12	7	10	11	7	7
8	13	8	11	12	8	8
9	14	9	12	13	9	9
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30		30			30	30
31		31			31	31

CALENDAR

1906

FOR IDENTIFICATION.

My Name is *C. L. Bringle*

My Address is *Burlington Vermont*

In case of accident or serious illness please notify

THINGS TO BE REMEMBERED.

The make of my Bicycle is

Its number is

The number on the case of my Watch is

The number of the works is

The number of my Bank Book is

My Weight was

On

and my Height .. feet .. inches

Size of my Hat .. Gloves ..

" Hosiery .. Collar ..

" Cuffs .. Shoes ..

" Shirt .. Drawers ..

VALUES OF FOREIGN COINS.

The following estimate, by the Director of the Mint, of the values of Foreign Coins, is proclaimed by the Secretary of the Treasury, in pursuance of the provisions of section 25 of the Act of August 28, 1894, to be the values of such coins in terms of the money of account of the United States, to be followed in estimating the value of all foreign merchandise exported to the United States on or after Jan. 1, 1904, expressed in any of such metallic currencies:

COUNTRY.	STANDARD.	MONEY UNIT.	VALUE.
Argentina Rep.	Gold	Peso	0 96 5
Austria-Hungary	Gold	Crown	0 30 1
Belgium	Gold	Franc	0 10 1
Bolivia	Silver	Boliviano	0 42 4
Brazil	Gold	Milreis	0 54 6
British America	Gold	Dollar	1 00
Costa Rica	Gold	Colon	0 46 5
Chile	Gold	Peso	0 36 5
China	Silver	Tael (Shanghai, Haikwan, Customs)	0 69 8
Colombia	Silver	Peso	0 42 4
Cuba	Gold	Peso	0 96 5
Denmark	Gold	Crown	0 30 1
Ecuador	Gold	Sucre	0 48 7
Egypt	Gold	Found (100 piastres)	4 94 1
Finland	Gold	Mark	0 19 1
France	Gold	Franc	0 19 1
German Empire	Gold	Mark	0 23 8
Great Britain	Gold	Found sterling	4 86 6
Greece	Gold	Drachma	0 19 1
Haiti	Gold	Gourde	0 96 5
India	Gold	Found sterling	4 86 6
Italy	Gold	Lira	0 19 1
Japan	Gold	Yen	2 46 5
Liberia	Gold	Dollar	1 00
Mexico	Silver	Dollar	0 46 1
Netherlands	Gold	Florin	0 40 2
Newfoundland	Gold	Dollar	1 34
Norway	Gold	Crown	0 96 5
Peru	Silver	Kran	2 78
Peru	Gold	Sol	0 46 7
Portugal	Gold	Milreis	1 30
Russia	Gold	Ruble	0 51 5
Spain	Gold	Peseta	0 19 1
Sweden	Gold	Crown	0 30 1
Switzerland	Gold	Franc	0 19 1
Turkey	Gold	Piaster	0 44
Uruguay	Gold	Peso	1 34
Venezuela	Gold	Bolivar	0 19 1

STANDARD BULLION.

Standard bullion contains 100 parts of pure gold or pure silver and 100 parts of copper alloy. The coining value of an oz. of pure gold is \$20.67, and of an oz. of standard gold is \$18.00. The coining value in standard silver dollars of an oz. of pure silver is \$1.294.

RATES OF POSTAGE.

First class (letters, etc.)	per oz. 2c
Second class (newspapers, periodicals)	4 " 1c
Third class (books, circulars)	2 " 1c
Fourth class (merchandise, etc.)	1 " 1c
Registration fee (extra postage)	8c
Special delivery (" ")	10c
Postal cards (reply cards 2c.)	1c
Local or drop letters (where no free delivery)	per oz. 1c

FIRST CLASS.—Letters and all other written matter, sealed or unsealed, and all other matter sealed or fastened in any manner not easily examined, 2 cents for each ounce or fraction thereof, in U. S., Canada or Mexico.

SECOND CLASS.—Newspapers and periodicals (regular publications) can be mailed by the public at the rate of 1 cent for each 4 ounces or fraction. Publishers and news agents only, 1 cent per pound.

THIRD CLASS.—Printed matter, books, circulars, photographs in unsealed wrappers only, 1 cent for each 2 ounces or fraction, fully prepaid. Limit of weight 4 lbs., except for a single book, which may weigh more.

FOURTH CLASS.—All mailable matter not included in the above, which is so prepared for mailing as to be easily withdrawn from the wrapper and examined, 1 cent per ounce or fraction. Limit of weight 4 lbs.

REFORWARDING.—Letters forwarded upon the written request of the person addressed without additional charge; other mail matter not returned or forwarded until stamps are furnished to pay postage.

MONEY ORDERS.—For orders not exceeding \$2.50, three cents; \$2.50 to \$5, five cents; \$5 to \$10, eight cents; \$10 to \$20, ten cents; \$20 to \$30, twelve cents; \$30 to \$40, fifteen cents; \$40 to \$50, eighteen cents; \$50 to \$60, twenty cents; \$60 to \$75, twenty-five cents; \$75 to \$100, thirty cents.

Puerto Rico, Guam, the Philippines, Hawaii and Cuba: Same as domestic.

REGISTRATION.—Letters or packages can be registered by adding stamps to the amount of 8 cents to the regular rate.

SPECIAL DELIVERY STAMPS, at 10 cents each, used in addition to regular rates, insures delivery immediately on arrival at office of destination. *These stamps can be used for no other purpose.*

PRIVATE MAILING CARDS authorized at regular postal card rates. *GILJUS ORAGATE*

FOREIGN POSTAGE.—All civilized countries are included in the Postal Union. Letters, per half ounce, 5 cents; second and third class matter, 2 ounces, 1 cent; postal cards, 2 cents each.

POSTAL DISTANCES FROM NEW YORK.

THREE	MILES.	THREE	MILES.
Albany, N. Y.,	143	Kansas City, Mo.,	1,140
Alexandria, Egypt,	6,150	Kingston, Jamaica,	1,820
Annapolis, Md.,	213	Lansing, Mich.,	731
Antwerp, Belgium,	4,000	Leavenworth, Kan.,	1,160
Aspinwall, Colombia,	2,231	Lincoln, Neb.,	1,455
Atlanta, Ga.,	816	Little Rock, Ark.,	1,322
Auckland, N. Z.,	10,120	Liverpool, England,	5,540
Augusta, Ga.,	290	London, England,	5,740
Augusta, Me.,	302	Los Angeles, Cal.,	3,000
Austin, Tex.,	1,581	Louisville, Ky.,	500
Baltimore, Md.,	185	Macon, Ga.,	1,084
Barbadoes, W. I.,	2,145	Madison, Wis.,	1,051
Berlin, Germany,	4,385	Madrid, Spain,	4,025
Bismarck, N. D.,	1,734	Malta Island,	5,280
Boise, Ida.,	2,736	Manchester, N. H.,	164
Bombay, India,	9,675	Manila, P. I.,	10,300
Bordeaux, France,	4,385	Melbourne, Australia,	9,705
Boston, Mass.,	214	Memphis, Tenn.,	1,157
Buenos Ayres, A. R.,	8,045	Mexico City, Mexico,	3,750
Bremen, Germany,	4,335	Milwaukee, Wis.,	1,077
Buffalo, N. Y.,	410	Mobile, Ala.,	1,290
Cadix, Spain,	5,375	Monterey, Cal.,	1,055
Cairo, Egypt,	6,280	Montpelier, Vt.,	109
Calcutta, India,	11,130	Minneapolis, Minn.,	1,214
Cape May, N. J.,	158	Munich, Bavaria,	4,610
Cape Town, Africa,	11,245	Nashville, Tenn.,	1,098
Carson City, Nev.,	1,021	Nassau, Bahamas,	1,105
Charlotte, S. C.,	579	New Orleans, La.,	1,235
Charleston, W. Va.,	666	Newport, R. I.,	1,029
Cheyenne, Wyo.,	1,916	Norfolk, Va.,	1,450
Chicago, Ill.,	792	Omaha, Neb.,	1,000
Christiana, Norway,	4,650	Panama, Colombia,	2,355
Cincinnati, O.,	757	Paris, France,	4,080
Cleveland, O.,	740	Philadelphia, Pa.,	91
Columbia, S. C.,	717	Pittsburg, Pa.,	1,444
Columbus, O.,	673	Portland, Ore.,	3,241
Coscoed, N. H.,	280	Prescott, Ariz.,	2,717
Constantinople,	5,810	Providence, R. I.,	1,000
Copenhagen, Denmark,	4,375	Quebec, Canada,	1,355
Denver, Col.,	2,038	Raleigh, N. C.,	521
Des Moines, Ia.,	1,020	Richmond, Va.,	1,044
Detroit, Mich.,	661	Rio de Janeiro, Brazil,	6,204
Dover, Del.,	105	Rome, Italy,	5,090
Duluth, Minn.,	1,530	Sacramento, Cal.,	2,314
Fort Wayne, Ind.,	794	Salt Lake City, Utah,	2,400
Frankfort, Ky.,	815	San Francisco, Cal.,	2,474
Galveston, Tex.,	1,740	San Juan, Porto Rico,	1,730
Geneva, Switzerland,	4,440	Santa Fe, N. M.,	2,200
Glasgow, Scotland,	3,375	Seattle, Wash.,	3,132
Hague, Netherlands,	3,950	Sioux City, Ia.,	1,413
Halifax, N. S.,	645	Springfield, Ill.,	1,080
Hamburg, Germany,	4,340	St. Louis, Mo.,	1,055
Harrisburg, Pa.,	106	St. Paul, Minn.,	1,214
Hartford, Conn.,	110	St. Peterburg, Russia,	5,370
Havana, Cuba,	1,413	Strasbourg, Germany,	4,135
Hayre, France,	3,600	St. Thomas, W. I.,	1,650
Helen, Mont.,	2,444	Tacoma, Wash.,	3,127
Henderson, Ky.,	1,032	Tallahassee, Fla.,	1,105
Hong Kong, China,	10,550	Tampa, Fla.,	1,240
Honolulu, S. I.,	5,645	Topeka, Kan.,	1,407
Hot Springs, Ark.,	1,147	Trenton, N. J.,	103
Indianapolis, Ind.,	817	Washington, D. C.,	218
Jackson, Miss.,	1,230	West Point, N. Y.,	108
Jacksonville, Fla.,	1,028	Wheeling, W. Va.,	1,550
Jefferson City, Mo.,	1,182	Yonkers, N. Y.,	1,407

POPULATION OF THE UNITED STATES.

The official count of the Twelfth Census.

STATES	1900	1890
Alabama.....	1,828,697	1,513,017
Arkansas.....	1,311,664	1,128,179
California.....	1,485,053	1,208,130
Colorado.....	539,700	412,138
Connecticut.....	908,255	746,258
Delaware.....	184,735	168,493
Florida.....	528,542	391,422
Georgia.....	2,216,331	1,837,353
Idaho.....	161,772	84,385
Illinois.....	4,821,550	3,896,351
Indiana.....	2,515,462	2,192,404
Iowa.....	2,231,853	1,911,896
Kansas.....	1,470,495	1,427,096
Kentucky.....	2,147,174	1,868,635
Louisiana.....	1,381,625	1,118,587
Maine.....	634,496	661,086
Maryland.....	1,190,050	1,042,390
Massachusetts.....	2,805,346	2,238,943
Michigan.....	2,420,982	2,093,889
Minnesota.....	1,751,394	1,301,826
Mississippi.....	1,551,270	1,289,090
Missouri.....	3,108,065	2,679,184
Montana.....	243,329	132,159
Nebraska.....	1,068,539	1,068,910
Nevada.....	42,335	45,761
New Hampshire.....	411,588	376,630
New Jersey.....	1,883,609	1,444,993
New York.....	7,268,012	5,997,863
North Carolina.....	1,893,810	1,617,947
North Dakota.....	139,146	182,719
Ohio.....	4,167,545	3,672,316
Oregon.....	413,536	313,767
Pennsylvania.....	6,302,115	5,258,014
Rhode Island.....	428,556	345,506
South Carolina.....	1,340,316	1,151,149
South Dakota.....	401,570	328,808
Tennessee.....	2,020,616	1,767,518
Texas.....	3,048,710	2,236,623
Utah.....	276,749	207,905
Vermont.....	243,641	332,422
Virginia.....	1,854,184	1,665,980
Washington.....	518,103	349,390
West Virginia.....	958,806	702,904
Wisconsin.....	2,060,043	1,086,580
Wyoming.....	92,531	60,705
Total, 45 States.....	74,610,523	62,116,811

TERRITORIES

Alaska.....	63,441	39,062
Arizona.....	129,331	69,020
Dist. of Columbia.....	278,718	230,392
Hawaii.....	154,001	89,990
Indian Territory.....	391,960	180,182
New Mexico.....	195,310	163,563
Oklahoma.....	598,345	61,834
Total, 7 Territories.....	1,604,006	807,663
Stationed abroad in service of the United States.....	*89,670	.....
Indians, etc., on reservations, except Indian Territory.....	.....	145,282

* Including an estimated population of 14,600 for certain military organizations and naval vessels stationed abroad, principally in the Philippines, for which the returns have not yet been received.

POPULATION OF PRINCIPAL CITIES.

	1900	1890
Akron, O.....	42,728	27,601
Albany, N. Y.....	94,151	94,023
Allentown, Pa.....	35,416	25,228
Allentown, Pa.....	129,896	105,287
Altoona, Pa.....	38,973	30,337
Altoona, Pa.....	89,872	65,573
Atlanta, Ga.....	27,898	13,065
Atlantic City, N. J.....	30,845	25,868
Ashburn, N. Y.....	39,441	33,300
Augusta, Ga.....	508,957	434,439
Baltimore, Md.....	27,628	27,839
Bay City, Mich.....	32,722	19,033
Bayonne, N. J.....	39,647	35,005
Birmingham, N. Y.....	38,415	26,178
Birmingham, Ala.....	560,892	448,477
Boston, Mass.....	70,996	48,866
Bridgetown, Conn.....	40,063	27,294
Buffalo, N. Y.....	352,387	255,664
Burlington, Vt.....	18,640	14,590
Butte, Mont.....	30,470	10,723
Cambridge, Mass.....	91,886	70,028
Canton, O.....	30,067	26,189
Camden, N. J.....	75,935	58,313
Cedar Rapids, Ia.....	25,656	18,020
Charleston, S. C.....	55,807	54,065
Chattanooga, Tenn.....	32,490	29,100
Chelsea, Mass.....	34,072	27,906
Chester, Pa.....	33,988	20,326
Chicago, Ill.....	1,099,550	236,908
Cincinnati, O.....	325,902	261,353
Cleveland, O.....	381,708	11,140
Colorado Springs, Col.....	21,085	88,150
Columbia, O.....	125,660	21,474
Council Bluffs, Ia.....	25,802	37,371
Dallas, Tex.....	42,938	38,067
Dallas, Tex.....	42,638	26,872
Davenport, Ia.....	36,254	61,220
Dayton, O.....	85,333	106,713
Denver, Col.....	133,859	50,063
Des Moines, Ia.....	62,139	205,876
Detroit, Mich.....	285,704	36,297
Duluth, Minn.....	52,969	33,115
Duluth, Minn.....	52,969	25,238
East St. Louis, Ill.....	29,655	15,169
Elizabeth, N. J.....	52,130	37,764
Elmira, N. Y.....	35,672	30,893
Eric, Pa.....	52,733	40,634
Evansville, Ind.....	59,007	50,756
Everett, Mass.....	24,336	11,068
Fall River, Mass.....	104,863	74,398
Fitchburg, Mass.....	31,531	22,037
Fort Wayne, Ind.....	45,115	35,393
Fort Worth, Tex.....	26,688	23,076
Galveston, Tex.....	37,789	29,084

POPULATION OF PRINCIPAL CITIES—CONTINUED.

	1900	1890
Gloucester, Mass.	26,121	24,651
Grand Rapids, Mich.	87,565	60,278
Harrisburg, Pa.	50,167	39,385
Hartford, Conn.	79,850	63,230
Haverhill, Mass.	37,175	27,412
Hoboken, N. J.	59,364	43,648
Holyoke, Mass.	45,712	35,637
Houston, Tex.	44,633	27,557
Indianapolis, Ind.	169,164	105,436
Jackson, Mich.	25,180	20,798
Jacksonville, Fla.	28,429	17,201
Jersey City, N. J.	206,433	183,003
Johnstown, Pa.	35,936	21,805
Joliet, Ill.	29,353	23,264
Kansas City, Kan.	51,418	38,316
Kansas City, Mo.	163,752	132,716
Knoxville, Tenn.	32,637	22,535
La Crosse, Wis.	28,895	25,090
Lancaster, Pa.	41,459	32,011
Lawrence, Mass.	62,559	44,654
Lexington, Ky.	26,369	21,567
Lincoln, Neb.	40,169	55,154
Little Rock, Ark.	38,207	25,874
Los Angeles, Cal.	102,479	50,395
Louisville, Ky.	204,731	161,129
Lowell, Mass.	94,069	77,696
Lynn, Mass.	68,513	55,727
Malden, Mass.	33,664	23,031
Manchester, N. H.	56,987	44,126
McKeesport, Pa.	34,227	20,741
Memphis, Tenn.	102,320	64,495
Meriden, Conn.	24,296	21,652
Milwaukee, Wis.	285,315	204,468
Minneapolis, Minn.	202,718	164,738
Mobile, Ala.	38,469	31,076
Montgomery, Ala.	30,346	21,883
Montpelier, Vt.	6,266	4,160
Nashville, Tenn.	80,865	76,168
Newark, N. J.	246,070	181,830
New Bedford, Mass.	62,442	40,733
New Britain, Conn.	25,998	16,519
Newcastle, Pa.	28,339	11,600
New Haven, Conn.	108,027	81,298
New Orleans, La.	287,104	242,039
Newport, Ky.	28,301	24,818
Newton, Mass.	35,587	24,879
New York, N. Y.	3,437,202	2,492,591
Norfolk, Va.	46,924	34,871
North Adams, Mass.	24,200	16,074
Oakland, Cal.	60,960	48,682
Omaha, Neb.	102,555	140,452
Oshkosh, Wis.	28,284	22,834
Pasadena, N. J.	27,777	13,028
Patterson, N. J.	105,171	78,547
Pawucket, R. I.	39,231	27,033
Peoria, Ill.	56,100	41,024

POPULATION OF PRINCIPAL CITIES—CONTINUED.

	1900	1890
Philadelphia, Pa.	1,233,597	1,046,964
Pittsburg, Pa.	321,616	238,617
Portland, Me.	50,145	36,425
Portland, Ore.	90,426	46,385
Providence, R. I.	175,597	132,146
Pueblo, Col.	28,157	24,558
Quincy, Ill.	36,252	31,424
Quincy, Mass.	23,899	16,723
Racine, Wis.	29,102	21,014
Reading, Pa.	78,961	58,661
Richmond, Va.	85,050	81,388
Rochester, N. Y.	162,608	133,896
Rockford, Ill.	31,051	23,584
Rutland, Vt.	11,499	9,286
Sacramento, Cal.	29,282	26,386
Saginaw, Mich.	42,345	46,322
Saint Louis, Mo.	102,979	52,522
Saint Joseph, Mo.	575,258	451,770
Saint Paul, Minn.	163,065	133,156
Salem, Mass.	35,956	20,801
Salt Lake City, Utah.	63,631	44,843
San Antonio, Tex.	53,321	37,673
San Francisco, Cal.	342,782	298,997
Savannah, Ga.	64,244	43,189
Schenectady, N. Y.	61,682	19,902
Scranton, Pa.	102,026	75,215
Seattle, Wash.	80,671	42,837
Sioux City, Ia.	39,111	37,806
Somerville, Mass.	61,643	40,152
South Bend, Ind.	35,999	21,819
South Omaha, Neb.	26,001	8,062
Spokane, Wash.	36,848	19,922
Springfield, Ill.	34,159	24,963
Springfield, Mass.	62,069	44,179
Springfield, O.	38,253	31,895
Syracuse, N. Y.	108,374	88,143
Tacoma, Wash.	37,714	36,006
Taunton, Mass.	31,036	25,448
Terre Haute, Ind.	36,673	30,247
Toledo, O.	131,822	81,434
Topeka, Kan.	33,608	31,007
Trenton, N. J.	73,307	57,458
Troy, N. Y.	60,651	60,966
Utica, N. Y.	50,383	44,007
Waltham, Mass.	23,481	18,767
Washington, D. C.	278,718	238,492
Waterbury, Conn.	45,859	28,646
Wheeling, W. Va.	39,878	34,522
Wilkesbarre, Pa.	51,721	37,718
Williamsport, Pa.	27,757	17,132
Wilmington, Del.	76,508	61,431
Worcester, Mass.	28,204	20,830
Worcester, Mass.	118,421	84,655
Yonkers, N. Y.	47,931	32,033
York, Pa.	33,708	20,793
Youngstown, O.	44,885	33,220

INTEREST LAWS OF ALL THE STATES, AND DAYS OF GRACE.

STATES AND TERRITORIES.	DAYS OF GRACE.		RATES OF INTEREST.	PENALTY OF USURY.
	State.	Right Justice.	Legal or Contract.	
Alabama.....	Yes	Yes	8 per ct.	Forfe. of all int.
Alaska.....	Yes	No	12 per ct.	None.
Arizona.....	Yes	No	7 No limit.	None.
Arkansas.....	Yes	No	6 per ct.	Forfe. principal & int.
California.....	No	No	7 No limit.	None.
Colorado.....	No	No	8 No limit.	None.
Connecticut.....	No	No	6 No limit.	None.
Delaware.....	Yes	No	6 per ct.	Forfeiture principal.
District of Col.	No	No	600 per ct.	Forfe. of entire int.
Florida.....	No	No	800 per ct.	Forfe. of entire int.
Georgia.....	Yes	No	1 per ct.	Forfe. of excess of int.
Hawaiian Is'ls	Yes	Yes	6	Forfe. int. & 100 p. prin.
Idaho.....	No	No	7 12 per ct.	Forfe. of entire int.
Illinois.....	No	No	5 7 per ct.	Forfe. of entire int.
Indiana.....	Yes	Yes	6 8 per ct.	Forfe. int. over 6 p. ct.
Iowa.....	Yes	Yes	6 10 per ct.	Forfe. principal & int.
Kansas.....	Yes	Yes	6 8 per ct.	Forfe. int. & costs, etc.
Kentucky.....	Yes	Yes	6 10 per ct.	Forfe. twice over & p. ct.
Louisiana.....	Yes	Yes	6 6 per ct.	Forfe. excess of int.
Maine.....	Yes	No	8 8 per ct.	Forfe. of interest.
Maryland.....	No	Yes	6 No limit.	None.
Massachusetts.....	No	No	6 6 per ct.	Forfe. entire interest.
Michigan.....	Yes	Yes	6 7 per ct.	Forfe. of interest.
Minnesota.....	Yes	Yes	6 10 per ct.	Forfe. of prin. & int.
Mississippi.....	Yes	Yes	6 10 per ct.	Forfe. of interest.
Missouri.....	Yes	No	6 6 per ct.	Forfeiture 10 percent
Montana.....	No	No	8 No limit.	None.
Nebraska.....	Yes	Yes	7 10 per ct.	Forfe. entire interest.
Nevada.....	No	No	7 No limit.	None.
New Hampshire.....	No	Yes	6 6 per ct.	Forfe. double ex. of int
New Jersey.....	No	No	6 6 per ct.	Forfe. int. & costs.
New Mexico.....	Yes	Yes	6 12 per ct.	Forfe. double of int
New York.....	No	No	6 6 per ct.	Forfe. of prin. & int.
North Carolina.....	Yes	Yes	6 8 per ct.	Forfe. dbl. amt. of int.
North Dakota.....	No	No	7 12 per ct.	Forfe. excess of int.
Ohio.....	No	No	6 6 per ct.	Forfe. excess of int.
Oklahoma.....	Yes	Yes	7 No limit.	None.
Oregon.....	No	No	6 10 per ct.	Forfe. prin. & int.
Pennsylvania.....	No	No	6 6 per ct.	Forfe. excess of int.
Rhode Island.....	No	Yes	6 No limit.	None.
South Carolina.....	Yes	Yes	7 8 per ct.	Forfe. of interest.
South Dakota.....	Yes	Yes	7 12 per ct.	Forfe. int., fee, imp' &
Tennessee.....	No	No	6 6 per ct.	Forfe. of int.
Texas.....	Yes	Yes	6 10 per ct.	Forfe. entire interest.
Utah.....	No	No	8 No limit.	None.
Vermont.....	No	No	6 6 per ct.	Forfe. of excess.
Virginia.....	No	No	6 6 per ct.	Forfe. entire interest.
Washington.....	No	No	6 12 per ct.	Forfe. amt. int. & p. ct.
West Virginia.....	No	No	6 10 per ct.	Forfe. of excess int.
Wisconsin.....	No	No	6 6 per ct.	Forfe. double amt. int.
Wyoming.....	Yes	Yes	8 12 per ct.	Forfe. entire interest.

A note dated Sunday is void.

Altering a note in any manner by the holder makes it void.

A note given by a minor is void.

The maker of a lost or stolen note is not released from payment if the amount and consideration can be proven.

A note obtained by fraud, or given by an intoxicated person, cannot be collected.

WEIGHT PER BUSHEL OF GRAIN, ETC.

The following Table shows the number of pounds per bushel required, by law or custom, in the sale of articles specified, in the several States of the Union.

STATES.	Barley.	Buckwheat.	Coal.	Corn, sh'd.	Corn Meal.	Oats.	Potatoes.	Rye.	Wheat.	Turnips.	Beans, wh.	Clover & S. Y.	Timothy.
Maine.....	48	48	56	50	52	50	60	60	60	60	60	60	60
N. Hampshire.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Vermont.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Massachusetts.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Connecticut.....	48	48	56	50	52	50	60	60	60	60	60	60	60
New York.....	48	48	56	50	52	50	60	60	60	60	60	60	60
New Jersey.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Pennsylvania.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Delaware.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Maryland.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Dist. Columbia.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Virginia.....	48	48	56	50	52	50	60	60	60	60	60	60	60
West Virginia.....	48	48	56	50	52	50	60	60	60	60	60	60	60
North Carolina.....	48	48	56	50	52	50	60	60	60	60	60	60	60
South Carolina.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Georgia.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Louisiana.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Arkansas.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Tennessee.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Kentucky.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Ohio.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Michigan.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Indiana.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Illinois.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Wisconsin.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Minnesota.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Iowa.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Missouri.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Kansas.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Nebraska.....	48	48	56	50	52	50	60	60	60	60	60	60	60
California.....	48	48	56	50	52	50	60	60	60	60	60	60	60
Oregon.....	48	48	56	50	52	50	60	60	60	60	60	60	60

HELP! In case of Accidents.

Drowning. 1. Loosen clothing, if any. 2. Empty lungs of water by laying body on its stomach and lifting it by the middle so that the head hangs down. Jerk the body a few times. 3. Pull tongue forward, using handkerchief, or pin with string, if necessary. 4. Institute motion of respiration by alternately compressing and expanding the lower ribs, about twenty times a minute. Alternately raising and lowering the arms from the sides up above the head will stimulate the action of the lungs. Let it be done gently but persistently. 5. Apply warmth and friction to extremities. 6. By holding tongue forward, closing the nostrils and pressing the "Adam's apple" back, (so as to close entrance to stomach) direct inflation may be tried. Take a deep breath and breathe it forcibly into the mouth of patient, compress the chest to expel the air, and repeat the operation. 7. DON'T GIVE UP! People have been saved after months of patient, vigorous effort. 8. When breathing begins, get patient into a warm bed, give warm drinks, or spirits in teaspoonfuls, fresh air and quiet.

Burns and Scalds. Cover with cooking soda and lay wet cloths over it. Whites of eggs and olive oil. Olive or linseed oil, plain or mixed with chalk or whiting.

Lightning. Dashi cold water over a person struck.

Sunstroke. Loosen clothing. Get patient into shade and apply ice-cold water to head.

Mad Dog or Snake Bite. Tie cord tight above wound. Suck the wound and cauterize with caustic or white-hot iron at once, or cut out adjoining parts with a sharp knife.

Venomous Insects' Stings, &c. Apply weak ammonia, oil, salt water or iodine.

Fainting. Place flat on back; allow fresh air and sprinkle with water.

Tests of Death. Hold mirror to mouth. If living, mistiness will gather. Push pin into flesh. If dead the hole will remain, if alive it will close up.

Cinders in the Eye. Roll soft paper up like a lamp lighter and wet the tip to remove, or use a medicine dropper to draw it out. Rub the other eye.

Fire in One's Clothing. *Don't run*—especially not down stairs or out of doors. Roll on carpet or wrap in woolen rug or blanket. Keep the head down, so as not to inhale flame.

Fire in a Building. Crawl on the floor. The clearest air is the lowest in the room. Cover head with a woolen wrap, wet if possible. Cut holes for the eyes. Don't get excited.

Fire in Kerosene. *Don't use water*, it will spread the flames. Dirt, sand or flour is the best extinguisher; or smother with woolen rug, table-cloth or carpet.

Suffocation from Inhaling Burning-Gas. Get into the fresh air as soon as possible and lie down. Keep warm. Take ammonia,—twenty drops to a tumbler of water, at frequent intervals.

ANTIDOTES FOR POISONS.

First. Send for a Physician.

Second. INDUCE VOMITING, by tickling throat with feather or finger, drinking hot water or strong Mustard and water. Swallow Sweet Oil or whites of Eggs.

Acids are antidotes for ALKALIES, and vice versa.

SPECIAL POISONS AND ANTIDOTES.

Acids. MURIATIC. OXALIC. } Soap-suds, Magnesia,
ACETIC. SULPHURIC (Oil of Vitriol). } Lime-water.

Prussic Acid. } Ammonia in water. Dashi water
in face.

Carbolic Acid. Flour and water, mucilaginous drinks.

Alkalies. POTASH. LYE. } Vinegar or Lemon juice
HARTSHORN. AMMONIA. } in water.

Arsenic. } Milk, Raw Eggs, Sweet Oil, Lime-
Rat Poison. } water, Flour and water.
Paris Green. }

Bug Poison. } Whites of Eggs or Milk
Lead. } in large doses.
Saltpetre. }
Corrosive Sublimate. }
Sugar of Lead. }
Blue Vitriol. }

Chloroform. } Dashi cold water on head and chest.
Chloral. } Artificial Respiration. Piece of ice
Ether. } in rectum.

Carbonate of Soda. } Soap-suds and mucilaginous
Coppers. } drinks.
Cobalt. }

Iodine. } Search and water. Astringent infu-
Antimony. } sions. Strong tea.
Tartar Emetic. }

Mercury and ITS SALTS. } Whites of Eggs. Milk.
Nitrate of Silver. } Mucilage.
Lunar Caustic. } Salt and water.

Opium. }
Morphine. }
Laudanum. } Strong coffee, hot luth. Keep
Paregoric. } awake and moving at any
Soothing Powders } cost.
or Syrups. }

Strychnine. } Mustard and water, Sul-
Tinct. of Nux Vomica. } phate of Zinc. Absolute
quiet. Plug the ears.

AVOID DANGER OF POISONING.

By always keeping every bottle or box well labelled. If an old bottle is used do not fail to wash off all old labels. Have a place for poisonous medicines, etc., and keep them on the high shelves. Promptly destroy all packages which have contained them.

WEATHER SIGNALS.

[Adopted for general use by the United States Signal Service on and after March 1, 1887.]








INTERPRETATION OF SIGNALS.

No. 1.	No. 2.	No. 3.	No. 4.
White Flag.	Blue Flag.	Black Triangular Flag.	White Flag, Black Center.
			
Clear or Fair.	Rain or Snow.	Temperature.	Cold Wave.

No. 1, white flag, clear or fair weather, no rain. No. 2, blue flag, rain or snow. No. 3, black triangular flag, refers to temperature, and above Nos. 1 or 2, indicates warmer weather; below Nos. 1 or 2, colder weather, and when not displayed, stationary weather. No. 4, white flag with black center (cold wave flag), sudden fall in temperature; this signal is usually ordered at least twenty-four hours in advance of the cold wave. It is not displayed unless a temperature of forty-five degrees, or less, is expected, nor is flag No. 3 ever displayed with it.

A red flag with a black center indicates that a storm of marked violence is expected.

DISPLAY EXAMPLES.

Colder.	Fair Weather.
	
Warmer.	
	
Rain or Snow.	
	
Warmer, Fair Weather, followed by Rain or Snow.	
	
Cold Wave.	Fair Weather.
	

When displayed on poles, the signals should be arranged to read downward; when displayed from horizontal supports, a small streamer should be attached to indicate the point from which the signals are to be read

PRESIDENTS OF THE UNITED STATES.

No.	Name.	Born.	Inaugurated.	Term of Office.	End.	State of Birth.	Residence when elected.	Political Party.
1	GEORGE WASHINGTON	Feb. 22, 1732	April 30, 1789	8 years.	Dec. 14, 1799	Virginia.	Virginia.	Federal.
2	JOHN ADAMS	Oct. 30, 1735	Mar. 4, 1797	4 "	July 4, 1800	Mass.	Mass.	Republican.
3	THOMAS JEFFERSON	Apr. 13, 1743	Mar. 4, 1800	4 "	June 28, 1809	Virginia.	Virginia.	"
4	JAMES MONROE	Sept. 28, 1758	Mar. 4, 1817	8 "	June 28, 1825	Virginia.	"	"
5	JOHN QUINCY ADAMS	July 11, 1767	Mar. 4, 1825	8 "	Feb. 21, 1848	Mass.	Mass.	Coalition.
6	ANDREW JACKSON	Mar. 15, 1767	Mar. 4, 1829	8 "	June 8, 1845	Tennessee.	Tennessee.	Democrat.
7	MARTIN VAN BUREN	Dec. 5, 1782	Mar. 4, 1837	8 "	July 1, 1841	New York.	New York.	Whig.
8	W. L. GARRISON	Mar. 29, 1793	Mar. 4, 1841	4 months.	Jan. 13, 1842	Mass.	Mass.	Democrat.
9	JAMES K. POLK	Nov. 24, 1795	Mar. 4, 1845	3 yrs. 11 mos.	June 15, 1849	Virginia.	Virginia.	Democrat.
10	ZACHARY TAYLOR	Sept. 24, 1784	July 9, 1849	1 year 4 mos.	July 9, 1850	Virginia.	Virginia.	Whig.
11	MILLARD FILLMORE	Feb. 7, 1800	July 9, 1850	2 years 5 mos.	July 9, 1853	New York.	New York.	Democrat.
12	FRANKLIN PIERCE	Nov. 23, 1804	Mar. 4, 1853	4 yrs.	July 8, 1857	N. Hamp.	N. Hamp.	Democrat.
13	ABRAHAM LINCOLN	Feb. 12, 1809	Mar. 4, 1861	4 yrs. 40 days.	June 21, 1865	Penn.	Penn.	Republican.
14	ANDREW JOHNSON	Dec. 20, 1808	April 15, 1865	5 yrs. 10 mos.	July 31, 1869	Kennedy.	Kennedy.	Republican.
15	UNION S. GRANT	Apr. 27, 1822	Mar. 4, 1869	8 yrs.	July 23, 1875	N. Carolina.	N. Carolina.	"
16	RETURNED B. HAY	Oct. 4, 1824	Mar. 4, 1877	4 yrs. 6 mos.	Sept. 17, 1881	Illinois.	Illinois.	"
17	JAMES A. GARFIELD	Nov. 19, 1829	Mar. 4, 1881	4 yrs. 5 mos.	Sept. 19, 1881	Ohio.	Ohio.	"
18	JOHN TYLER	Mar. 29, 1790	Mar. 4, 1841	4 yrs. 5 mos.	Mar. 4, 1845	Vermont.	New York.	Democrat.
19	JAMES A. GARFIELD	Nov. 19, 1829	Mar. 4, 1881	4 yrs. 5 mos.	Sept. 19, 1881	Ohio.	Ohio.	Democrat.
20	JOHN TYLER	Mar. 29, 1790	Mar. 4, 1841	4 yrs. 5 mos.	Mar. 4, 1845	Vermont.	New York.	Democrat.
21	BENJAMIN HARRISON	Aug. 20, 1833	Mar. 4, 1889	4 yrs. 6 mos.	Sept. 17, 1893	Ohio.	Ohio.	Republican.
22	WILLIAM MCKINLEY	Jan. 27, 1827	Mar. 4, 1897	4 yrs. 6 mos.	Sept. 17, 1898	Ohio.	Ohio.	Republican.
23	THEODORE ROOSEVELT	Oct. 27, 1858	Sept. 14, 1901	4 yrs. 6 mos.	Sept. 14, 1901	New York.	New York.	Republican.

LEGAL HOLIDAYS.

In most States when the holiday falls on Sunday the Monday following is observed.

Legal holidays in some States are observed as such only by common consent, or when appointed by the Governor, and not by legislative enactment.

ALABAMA—Jan. 1 and 19, Feb. 22, Mardi-Gras, Good Friday, April 26, June 3, July 4, Labor Day, Thanksgiving, Dec. 25.
 ARKANSAS—Jan. 1, Feb. 22, July 4, Thanksgiving, Dec. 25.
 CALIFORNIA—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Sept. 9, Thanksgiving, Dec. 25, gen. election.
 COLORADO—Jan. 1, Feb. 22, Arbor Day, May 30, July 4, 1st Monday in September, Thanksgiving, Dec. 25, general election.
 CONNECTICUT—Jan. 1, Feb. 12 and 22, May 30, July 4, Labor Day, Thanksgiving, Dec. 25.
 DELAWARE—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
 DISTRICT OF COLUMBIA—Jan. 1, Feb. 22, Inauguration Day, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
 FLORIDA—Jan. 1 and 19, Arbor Day, Feb. 22, April 26, June 3, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, gen. election.
 GEORGIA—Jan. 1 and 19, Feb. 22, April 26, June 3, July 4, 1st Monday in Sept., any Thanksgiving, 1st Friday in Dec., Dec. 25.
 IDAHO—Jan. 1, Feb. 22, Arbor Day, July 4, Labor Day, any day of Thanksgiving, Dec. 25, gen. election.
 ILLINOIS—Jan. 1, Feb. 12 and 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
 INDIANA—Jan. 1, Feb. 22, public fast, May 30, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, general election.
 IOWA—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in September, Thanksgiving, Dec. 25, general election.
 KANSAS—Jan. 1, Feb. 22, May 30, public fast, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, general election.
 KENTUCKY—Jan. 1, Feb. 22, May 30, July 4, public fast, Labor Day, Thanksgiving, Dec. 25, general election.
 LOUISIANA—Jan. 1 and 8, Feb. 22, Mardi-Gras in New Orleans, Good Friday, April 6, June 3, July 4, All Saints Day, Thanksgiving, Dec. 25, gen. election.
 MAINE—Jan. 1, Feb. 22, May 30, public fast, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
 MARYLAND—Jan. 1, Feb. 22, Good Friday, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
 MASSACHUSETTS—Feb. 22, April 19, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25.
 MICHIGAN—Jan. 1, Feb. 22, May 30, July 4, 1st Mon. in Sept., Dec. 25, Fasting and Thanksgiving Day.
 MINNESOTA—Jan. 1, Feb. 12 and 22, Good Friday, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, Arbor Day, general election.

LEGAL HOLIDAYS.

MISSISSIPPI—Jan. 1, April 26, July 4, Thanksgiving, Dec. 25.
 MISSOURI—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
 MONTANA—Jan. 1, Feb. 22, May 30, public fast, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, Arbor Day, general election.
 NEBRASKA—Jan. 1, Feb. 22, April 22, May 30, July 4, 1st Mon. in Sept., public fast, Thanksgiving, Dec. 25.
 NEVADA—Jan. 1, Feb. 22, May 30, July 4, Thanksgiving, Dec. 25, general election.
 NEW HAMPSHIRE—Feb. 22, Fast Day, May 30, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, general election.
 NEW JERSEY—Jan. 1, Feb. 12 and 22, May 30, July 4, 1st Monday in Sept., Thanksgiving and Fast Day, Dec. 25, every Saturday p. m., general election.
 NEW YORK—Jan. 1, Feb. 12 and 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election, every Saturday p. m.
 NORTH CAROLINA—Jan. 1 and 19, Feb. 22, May 10 and 20, July 4, Labor Day, Thanksgiving, Dec. 25.
 NORTH DAKOTA—Jan. 1, Feb. 12 and 22, May 30, July 4, Arbor Day, Thanksgiving, public fast, Dec. 25, general election.
 OHIO—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
 OREGON—Jan. 1, Feb. 22, May 30, July 4, 1st Monday in September, public fast, Thanksgiving, Dec. 25, general election.
 PENNSYLVANIA—Jan. 1, Feb. 12, spring election, Feb. 22, Good Friday, May 30, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, gen. election, every Sat. p. m.
 RHODE ISLAND—Jan. 1, Feb. 22, Arbor Day, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, State election, general election, Flag Day.
 SOUTH CAROLINA—Jan. 1, Jan. 19, Feb. 22, May 10, June 3, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election.
 SOUTH DAKOTA—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Thanksgiving, Dec. 25, general election.
 TENNESSEE—Jan. 1, Feb. 22, Good Friday, 2d Friday in May, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, general election, every Saturday p. m.
 TEXAS—Jan. 1, Feb. 22, March 2, April 21, July 4, 1st Monday in Sept., Dec. 25, days of Fasting and Thanksgiving, Election Day.
 UTAH—Jan. 1, Feb. 22, April 15, May 30, July 4, July 24, 1st Monday in Sept., Thanksgiving, Dec. 25.
 VERMONT—Jan. 1, Feb. 22, Fast Day, May 30, July 4, Aug. 16, Thanksgiving, Dec. 25.
 VIRGINIA—Jan. 1 and 19, Feb. 22, May 30, July 4, 1st Monday in Sept., Thanksgiving, Dec. 25, every Saturday p. m.
 WASHINGTON—Jan. 1, Feb. 12 and 22, Decoration Day, July 4, 1st Monday in September, Thanksgiving, Dec. 25, general election.
 WEST VIRGINIA—Jan. 1, Feb. 22, May 30, July 4, Labor Day, Dec. 25, any day of National Thanksgiving, general election.
 WISCONSIN—Jan. 1, Feb. 22, May 30, Arbor Day, July 4, 1st Mon. in Sept., Thanksgiving, Dec. 25, gen. election.
 WYOMING—Jan. 1, Feb. 12 and 22, May 30, July 4, Arbor Day, Labor Day, Thanksgiving, Dec. 25, gen. election.

STANDARD TIME.

In this Almanac the risings and settings of the Sun and Moon are given in local mean time, as heretofore. The Tides are given in STANDARD TIME.

To change to STANDARD TIME add or subtract the minutes as given below, according as they are marked *plus* or *minus*.

Standard Time Divisions as adopted by the Railroads.

EASTERN STANDARD—75th Meridian. Canada, between Quebec and Detroit;—U. S. east of Buffalo, N. Y.; Pittsburg, Pa.; Wheeling and Huntington, W. Va.; Bristol, Tenn.; Charlotte, N. C., and Augusta, Ga.

CENTRAL STANDARD—90th Meridian. West from "Eastern" limits, as above, to Broadview, Canada; to the Missouri River in Dakota; North Platte and McCook, Nebraska; Wallace and Dodge City, Kansas; Toyah and Sanderson, Texas.

MOUNTAIN STANDARD—105th Meridian. West from "Central" limits to Heron, Montana; Ogden, Utah; Needles and Yuma, Arizona.

PACIFIC STANDARD—120th Meridian. West from "Mountain" limits to coast.

Correction for the following Cities.

Eastern Standard. 75° Longitude.	Central Standard. 90° Longitude.
<i>Minutes.</i>	<i>Minutes.</i>
Bangor, Me. - 25	Cleveland, Ohio. - 25
Augusta, Me. - 21	Columbus, Ohio. - 23
Portland, Me. - 10	Detroit, Mich. - 28
Boston, Mass. - 15	Toledo, Ohio. - 26
Newport, R. I. - 16	Lafayette, Ohio. - 22
Providence, R. I. - 14	Cincinnati, Ohio. - 23
Concord, N. H. - 14	Louisville, Ky. - 25
New London, Conn. - 12	Indianapolis, Ind. - 26
Springfield, Mass. - 10	Chicago, Ill. - 20
Montpelier, Vt. - 10	Milwaukee, Wis. - 8
Hartford, Conn. - 9	Springfield, Ill. - 2
Montreal, P. Q. - 6	Memphis, Tenn. 0
Albany, N. Y. - 3	New Orleans, La. 0
New York, N. Y. - 4	St. Louis, Mo. - 1
Utica, N. Y. - 1	Rock Island, Ill. - 3
Philadelphia, Pa. - 1	Des Moines, Iowa. - 3
Syracuse, N. Y. - 1	Hartington, Iowa. - 12
Baltimore, Md. - 6	St. Paul, Minn. - 12
Washington, D. C. - 8	Des Moines, Iowa. - 14
Rochester, N. Y. - 11	Kansas City, Mo. - 18
Buffalo, N. Y. - 16	Galveston, Texas. - 19
Pittsburg, Pa. - 20	Omaha, Neb. - 24

Mountain Standard. 105° Longitude.	Pacific Standard. 120° Longitude.
Denver, Col. 0	Sacramento, Cal. + 6
Salt Lake City, Utah. + 28	San Francisco, Cal. + 20

TIDE TABLE.

To Find High Water (Standard Time) Add to, or Subtract from, High Water at New York.

EASTERN STANDARD.	H. M.	Fect.
Eastport, Me.	add 2 37	18.2
Bar Harbor, Me.	" 2 37	16.1
Rockland, Me.	" 2 45	9.6
Portland, Me.	" 2 47	8.8
Portsmouth, N. H.	" 3 0	9.2
Isle of Shoals, N. H.	" 3 1	8.7
Newburyport, Mass.	" 3 6	7.9
Rockport, Mass.	" 3 39	8.6
Glocester, Mass.	" 2 45	8.9
Salem, Mass.	" 3 0	9.2
Martinehead, Mass.	" 2 52	9.2
Nahant, Mass.	" 3 53	9.3
Hull, Mass.	" 2 53	9.5
Plymouth, Mass.	" 3 2	10.2
Provincetown, Mass.	" 3 19	9.3
Namnet, Mass.	" 4 2	7.1
Vineyard Haven, Mass.	" 3 25	1.7
Wood's Hole (North Side), Mass.	sub. 0 18	4.1
Wood's Hole (South Side), Mass.	add 0 19	1.7
New Bedford Entrance (Dumpling Rock), Mass.	sub. 0 17	3.8
Newport, R. I.	" 0 27	3.5
Bristol, R. I.	" 0 13	4.1
Providence, R. I.	" 0 2	4.4
Point Judith, R. I.	" 0 43	3.1
New Shoreham, Block Island, R. I.	" 0 43	3.0
Watch Hill, R. I.	add 0 26	2.7
Stonington, Conn.	" 0 57	2.7
New London, Conn.	" 1 14	2.4
Norwich, Conn.	" 1 55	3.1
New Haven, Conn.	" 3 0	6.0
Bridgeport, Conn.	" 3 2	7.2
Throg's Neck, N. Y.	" 3 4	7.3
Montauk Point, L. I.	" 0 7	1.0
Coney Island, L. I.	sub. 0 20	4.7
West Point, N. Y.	add 2 50	3.3
Long Branch, N. J.	sub. 0 24	4.4
Ocean Grove, N. J.	" 0 21	4.2
Cape May Landing, N. J.	add 0 16	4.6
Newancote, Del.	" 3 47	6.4
League Island, Pa.	" 5 29	6.0
Philadelphia, Pa.	" 5 44	5.4
Annapolis, Md.	sub. 3 15	6.9
Baltimore, Md.	" 1 27	1.2
Old Point Comfort, Va.	add 0 40	2.5
Richmond, Va.	sub. 3 20	3.6
Hatteras Inlet, N. C.	" 0 53	2.0
Beaufort, N. C.	sub. 0 14	3.8
Charleston (C. H. Ward), S. C.	" 0 30	5.1
CENTRAL STANDARD.		
Fort Pulaski (Savannah Ent.), Ga.	sub. 1 28	6.0
Savannah (Dry Dock Wharf), Ga.	" 0 23	6.5
Jacksonville, Fla.	add 0 19	1.0
St. Augustine, Fla.	sub. 0 14	1.2
Key West, Fla.	add 0 25	1.2
Tampa Bay (Egmont Key), Fla.	" 3 3	1.4
Cedar Keys (Depot Key), Fla.	" 4 44	2.4

HIGH TIDE. (STANDARD TIME.)

Day of Mo.	JANUARY.		FEBRUARY.		MARCH.	
	Boat. Tide.	N. Y. Tide.	Boat. Tide.	N. Y. Tide.	Boat. Tide.	N. Y. Tide.
	Morning.	Evening.	Morning.	Evening.	Morning.	Evening.
1	7 22	4 19	9 1	5 58	7 42	4 38
2	8 22	5 19	9 53	6 51	8 39	5 36
3	9 19	6 17	10 40	7 35	9 28	6 26
4	10 13	7 10	11 22	8 18	10 14	7 11
5	11 1	7 55	.....	8 59	10 56	7 51
6	11 45	8 41	0 21	9 38	11 33	8 29
7	0 6	9 26	0 59	10 15	.....	9 6
8	0 49	10 7	1 36	10 50	0 26	9 42
9	1 30	10 45	2 14	11 28	1 2	10 17
10	2 10	11 24	2 52	.....	1 40	10 54
11	2 49	.....	3 31	0 32	2 19	11 35
12	3 30	0 28	4 11	1 20	3 0	.....
13	4 15	1 14	5 14	2 12	3 46	0 45
14	5 3	2 1	6 13	3 11	4 40	1 39
15	5 56	2 54	7 16	4 13	5 41	2 39
16	6 52	3 49	8 19	5 15	6 47	3 44
17	7 50	4 46	9 18	6 16	7 52	4 49
18	8 47	5 44	10 15	7 12	8 51	5 51
19	9 42	6 40	11 7	8 0	9 51	6 49
20	10 36	7 32	11 53	8 51	10 44	7 39
21	11 25	8 20	0 17	9 40	11 31	8 26
22	.....	9 12	1 6	10 25	.....	9 17
23	0 37	10 0	1 53	11 12	0 43	10 5
24	1 27	10 45	2 42	.....	1 32	10 51
25	2 14	11 34	3 34	0 33	2 22	11 44
26	3 3	0 0	4 32	1 31	3 14	0 12
27	3 56	0 55	5 35	2 33	4 11	1 10
28	4 54	1 53	6 40	3 37	5 12	2 11
29	5 57	2 54	.....	.....	6 15	3 13
30	7 1	3 58	.....	.....	7 15	4 12
31	8 3	5 0	.....	.....	8 10	5 7

SIZE OF THE GREAT LAKES.

	Miles long.	Miles wide.
Superior	380	120
Michigan	320	60
Ontario	170	40
Champlain	123	12

HIGH TIDE. (STANDARD TIME.)

Day of Mo.	APRIL.		MAY.		JUNE.	
	Boat. Tide.	N. Y. Tide.	Boat. Tide.	N. Y. Tide.	Boat. Tide.	N. Y. Tide.
	Morning.	Evening.	Morning.	Evening.	Morning.	Evening.
1	9 0	5 57	9 7	6 5	9 56	6 54
2	9 44	6 42	9 50	6 47	10 40	7 34
3	10 25	7 21	10 30	7 26	11 21	8 16
4	11 2	7 56	11 8	8 2	.....	9 1
5	11 37	8 33	11 45	8 41	0 25	9 45
6	.....	9 11	0 5	9 24	1 11	10 30
7	0 32	9 49	0 46	10 4	1 59	11 18
8	1 10	10 27	1 28	10 46	2 46	.....
9	1 51	11 7	2 14	11 33	3 37	0 36
10	2 34	11 54	3 3	0 0	4 33	1 32
11	3 21	0 19	3 56	0 55	5 34	2 32
12	4 15	1 14	4 53	1 52	6 36	3 33
13	5 16	2 14	5 57	2 55	7 40	4 36
14	6 21	3 19	7 2	3 59	8 40	5 38
15	7 27	4 23	8 4	5 0	9 38	6 36
16	8 30	5 27	9 2	6 0	10 33	7 29
17	9 27	6 25	9 57	6 55	11 21	8 15
18	10 20	7 17	10 49	7 44	.....	9 8
19	11 10	8 3	11 38	8 34	0 34	9 55
20	11 57	8 55	0 2	9 26	1 20	10 38
21	0 21	9 44	0 52	10 14	2 6	11 23
22	1 11	10 32	1 43	11 2	2 50	.....
23	2 2	11 22	2 32	11 53	3 34	0 33
24	2 54	.....	3 20	0 18	4 20	1 19
25	3 47	0 46	4 11	1 10	5 9	2 8
26	4 44	1 43	5 4	2 3	6 0	2 58
27	5 43	2 41	5 57	2 55	6 52	3 49
28	6 39	3 36	6 48	3 46	7 44	4 40
29	7 32	4 29	7 39	4 35	8 35	5 32
30	8 23	5 19	8 27	5 23	9 25	6 23
31	.....	.....	9 12	6 10	.....	.....

SIZE OF THE GREAT LAKES.

	Miles long.	Miles wide.
Eric	270	50
Huron	250	90
Winnipeg	240	40
Athabasca	200	20

HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	JULY.		AUGUST.		SEPTEMBER.	
	Best Tide.	N. Y. Tide.	Best Tide.	N. Y. Tide.	Best Tide.	N. Y. Tide.
	Morning.	Evening.	Morning.	Evening.	Morning.	Evening.
1	10 14	7 10	11 28	8 23	0 16	9 39
2	11 1	7 55	.....	9 12	1 4	10 24
3	11 45	8 41	0 37	9 58	1 52	11 11
4	0 8	9 30	1 24	10 42	2 40	.....
5	0 55	10 15	2 11	11 30	3 33	0 31
6	1 42	11 0	2 59	.....	4 32	1 31
7	2 29	11 50	3 51	0 30	5 37	2 35
8	3 18	0 16	4 50	1 48	6 44	3 41
9	4 12	1 11	5 55	2 53	7 47	4 44
10	5 10	2 8	7 0	3 57	8 44	5 42
11	6 13	3 11	8 5	5 1	9 36	6 34
12	7 18	4 15	9 4	6 2	10 21	7 18
13	8 22	5 18	9 58	6 56	11 1	7 55
14	9 21	6 19	10 46	7 41	11 38	8 34
15	10 16	7 13	11 28	8 22	.....	9 12
16	11 6	7 59	.....	9 6	0 31	9 48
17	11 50	8 48	0 27	9 44	1 8	10 23
18	0 12	9 32	1 5	10 20	1 45	10 59
19	0 55	10 13	1 42	10 55	2 25	11 42
20	1 37	10 51	2 20	11 35	3 8	0 5
21	2 17	11 32	2 59	.....	3 36	0 55
22	2 57	.....	3 42	0 41	4 51	1 49
23	3 38	0 37	4 30	1 29	5 51	2 49
24	4 23	1 22	5 24	2 22	6 55	3 52
25	5 13	2 11	6 24	3 22	7 59	4 56
26	6 6	3 4	7 27	4 23	8 59	5 56
27	7 2	3 59	8 27	5 23	9 54	6 52
28	7 59	4 55	9 24	6 22	10 45	7 40
29	8 56	5 53	10 18	7 15	11 32	8 28
30	9 50	6 47	11 7	8 2	.....	9 17
31	10 41	7 36	11 53	8 50	.....	.....

THE SIZE OF THE SEAS.

	Miles long.
Mediterranean.....	2,000
Caribbean.....	1,800
Red.....	1,400
Black.....	932
Baltic.....	600

HIGH TIDE.

(STANDARD TIME.)

Day of Mo.	OCTOBER.		NOVEMBER.		DECEMBER.	
	Best Tide.	N. Y. Tide.	Best Tide.	N. Y. Tide.	Best Tide.	N. Y. Tide.
	Morning.	Evening.	Morning.	Evening.	Morning.	Evening.
1	0 43	10 4	2 7	11 29	2 39	.....
2	1 32	10 53	3 0	.....	3 29	0 27
3	2 24	11 46	3 54	0 53	4 20	1 19
4	3 17	0 15	4 52	1 51	5 13	2 11
5	4 15	1 14	5 51	2 49	6 5	3 3
6	5 19	2 17	6 48	3 45	6 57	3 54
7	6 21	3 19	7 41	4 37	7 46	4 43
8	7 22	4 19	8 30	5 27	8 34	5 31
9	8 18	5 14	9 13	6 11	9 19	6 17
10	9 5	6 3	9 55	6 53	10 3	7 1
11	9 49	6 47	10 35	7 31	10 46	7 41
12	10 31	7 27	11 13	8 7	11 28	8 22
13	11 8	8 1	11 51	8 48	.....	9 8
14	11 42	8 39	0 11	9 30	0 31	9 51
15	0 0	9 17	0 52	10 10	1 15	10 33
16	0 37	9 54	1 35	10 51	2 1	11 18
17	1 16	10 32	2 20	11 39	2 47	.....
18	1 57	11 13	3 7	0 4	3 37	0 35
19	2 41	.....	3 59	0 57	4 31	1 29
20	3 29	0 27	4 55	1 54	5 29	2 27
21	4 22	1 21	5 57	2 55	6 31	3 28
22	5 22	2 20	7 1	3 57	7 35	4 32
23	6 25	3 23	8 2	4 59	8 36	5 34
24	7 29	4 26	9 1	5 58	9 36	6 34
25	8 30	5 28	9 57	6 54	10 33	7 29
26	9 26	6 24	10 50	7 46	11 25	8 19
27	10 20	7 16	11 41	8 37	.....	9 11
28	11 10	8 5	0 6	9 30	0 38	9 59
29	11 58	8 55	0 57	10 20	1 25	10 44
30	0 23	9 47	1 49	11 9	2 12	11 30
31	1 15	10 36	.....	.....	2 57	.....

AREA OF OCEANS IN SQUARE MILES.

Pacific.....	70,000,000
Atlantic.....	35,000,000
Indian.....	25,000,000
Southern.....	7,000,000
Arctic.....	4,000,000

SHORT METHOD FOR CALCULATING INTEREST.

Multiply the principal by as many hundreds as there are days, and

For 4 per cent.....	Divide by 90
" 5 " ".....	" 72
" 6 " ".....	" 60
" 7 " ".....	" 50
" 8 " ".....	" 45
" 9 " ".....	" 40
" 10 " ".....	" 36
" 12 " ".....	" 30

EXAMPLE—INTEREST on \$50 for 30 days at 4%.
 $50 \times 30 = 1500$, which divided by 90 = 16½ cents—the required result.

FESTIVALS AND FASTS.

Epiphany	Jan. 6
Septuagesima Sunday	Feb. 19
Quinquagesima—Shrove Sunday	Mar. 5
Ash Wednesday	Mar. 8
First Sunday in Lent	Mar. 12
St. Patrick	Mar. 17
Palm Sunday	April 10
Good Friday	April 21
Easter Sunday	April 23
Low Sunday	April 30
Rogation Sunday	May 28
Ascension Day—Holy Thursday	June 1
Pentecost—Whit Sunday	June 11
Trinity Sunday	June 18
Corpus Christi	June 22
St. John Baptist	June 24
Michaelmas Day	Sept. 29
St. Andrew	Nov. 30
First Sunday in Advent	Dec. 3
Christmas Day	Dec. 25

THE SEASONS.

Eastern Standard.		Central Standard.	
Vernal Equinox....	Mar. 21, 3h. M.	Mar. 21, 1h. M.	
Summer Solstice....	June 21, 10h. A.	June 21, 9h. A.	
Autumnal Equinox....	Sept. 23, 3h. A.	Sept. 23, 2h. A.	
Winter Solstice....	Dec. 22, 7h. M.	Dec. 22, 6h. M.	
Mountain Standard.		Pacific Standard.	
Vernal Equinox....	Mar. 21, 2h. M.	Mar. 20, 11h. A.	
Summer Solstice....	June 21, 8h. A.	June 21, 7h. A.	
Autumnal Equinox....	Sept. 23, 11h. M.	Sept. 23, 10h. M.	
Winter Solstice....	Dec. 22, 5h. M.	Dec. 22, 4h. M.	

ECLIPSES FOR THE YEAR.

In the year 1905 there will be four Eclipses, two of the Sun and two of the Moon.

I. A PARTIAL ECLIPSE OF THE MOON, February 19-20. Invisible to North America. Visible to Europe, Asia, Africa and Australia.

II. AN ANNULAR ECLIPSE OF THE SUN, March 6. Invisible to North America. Visible to Australia, Polynesia and the South Indian Ocean.

III. A PARTIAL ECLIPSE OF THE MOON, August 14-15. Visible generally throughout the whole to North and South America and the Atlantic Ocean, and in part to Europe, Africa and the Pacific Ocean. Occurring as follows:—

Eclipsed.	Eastern.	Central.	Mountain.	Pacific.
	4 h. M.	4 h. M.	4 h. M.	4 h. M.
Moon enters penumbra	14 8 54	14 7 54	14 6 54	14 5 54
Moon enters shadow....	14 9 29	14 8 29	14 7 29	14 6 29
Midst of eclipse.....	14 10 14	14 9 14	14 8 14	14 7 14
Moon leaves shadow....	14 11 00	14 10 00	14 9 00	14 8 00
Moon leaves penumbra	15 1 15	15 0 15	14 11 15	14 10 15

First contact of shadow, 6° degrees from the south point of the moon's limb toward the east.

Magnitude of eclipse—0.22 (moon's diameter—1).

IV. A TOTAL ECLIPSE OF THE SUN, August 30. Visible to Europe and the North Atlantic Ocean, and to the eastern portion of North America, the western part of Asia and the northern half of Africa. Occurring as a partial eclipse as follows:—

	BEGINS.		ENDS.	
	H.	M.	H.	M.
Boston.....	5	38 M.	7	37 M.
New York.....	5	32 M.	7	33 M.
Philadelphia....	5	35 M.	7	33 M.
Pittsburgh.....	Before	sunrise	7	29 M.
Washington.....	At	"	7	39 M.
Charleston.....	Before	"	7	16 M.
Cincinnati.....	"	"	6	25 M.
Chicago.....	"	"	6	29 M.
St. Paul.....	Middle at	"	6	34 M.
Omaha.....	" before	"	6	26 M.
St. Louis.....	" at	"	6	23 M.
New Orleans....	" before	"	6	09 M.
Bismarck.....	" "	"	6	33 M.

The Calendars for the Latitude of Boston and Chicago

May be used for Central and Southern New England,
Central New York, Southern Michigan, Southern
Wisconsin, Northern Iowa, Northern Nebraska, South
Dakota, and Wyoming.

The Calendars for the Latitude of New York and Philadelphia

May be used for Southern New York, New Jersey, Penn-
sylvania, Northern Ohio, Northern Indiana, Northern
Illinois, Southern Iowa, and Southern Nebraska.

The Calendars for the Latitude of Washington, Cincinnati, etc.

May be used for Delaware, Maryland, the Virginias,
Southern Ohio, Southern Indiana, Southern Illinois,
Kentucky, Missouri, Kansas, and Colorado.

FACTS WORTH KNOWING.

There are 2,754 languages.
America was discovered in 1492.
A square mile contains 640 acres.
Eyeglasses were first used in 1839.
Telescopes were invented in 1600.
The first steel pen was made in 1830.
A span is ten and seven-eighths inches.
A hand (horse measure) is four inches.
Watches were first constructed in 1476.
The first iron steamship was built in 1830.
The first lucifer match was made in 1829.
Gold was discovered in California in 1848.
The first horse railroad was built in 1826-7.
The average human life is 31 years.
Coaches were first used in England in 1569.
Modern needles first came into use in 1545.
Kerosene was first used for lighting purposes in 1826.
The first newspaper was published in England in 1588.
The first newspaper advertisement appeared in 1462.
Until 1776 cotton-spinning was performed by the hand-
spinning wheel.
Measure 200 feet on each side and you will have a
square acre within an inch.
The first sewing machine was patented by Elias Howe,
Jr., in 1846.
The first steam engine on this continent was brought
from England in 1753.
One horse power is the strength necessary to lift 33,000
pounds one foot per minute.
The first knives were used in England, and the first
wheeled carriages in France in 1559.
The national colors of the United States were adopted
by Congress in 1777.



MOON'S PHASES. (On Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
NEW MOON.....	5d. 1h. 17m. A.	5d. 0h. 17m. A.
FIRST QUARTER...	15d. 3h. 11m. A.	15d. 2h. 11m. A.
FULL MOON.....	25d. 2h. 14m. M.	25d. 1h. 14m. M.
LAST QUARTER....	27d. 7h. 20m. A.	27d. 6h. 20m. A.

LATITUDE OF BOSTON AND CHICAGO.		LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. DC. & ST. LOUIS.	
Day.	Day of Wk.	Local Mean Time.	Local Mean Time.	Local Mean Time.	Local Mean Time.

1	S	17 30	2 59	17 24	2 56	17 19	2 55
2	Mo.	14 39	4 5	14 41	4 2	14 49	3 59
3	Tu.	17 30	5 8	17 25	5 4	17 19	5 1
4	We.	14 41	6 7	14 46	6 3	14 51	6 0
5	Th.	17 30	sets.	17 25	sets.	17 19	sets.
6	Fr.	14 43	5 58	14 48	6 2	14 53	6 7
7	Sa.	17 30	6 57	17 25	7 0	17 19	7 5
8	S	14 45	7 55	14 50	7 58	14 55	8 1
9	Mo.	17 29	8 53	17 24	8 55	17 19	8 57
10	Tu.	14 47	9 50	14 52	9 51	14 57	9 53
11	We.	17 29	10 47	17 24	10 47	17 19	10 49
12	Th.	14 49	11 45	14 54	11 44	14 59	11 45
13	Fr.	17 28	morn.	17 23	morn.	17 18	morn.
14	Sa.	14 51	0 43	14 56	0 41	15 1	0 41
15	S	17 27	1 41	17 23	1 39	17 18	1 37
16	Mo.	14 54	2 40	14 58	2 37	15 3	2 35
17	Tu.	17 26	3 40	17 22	3 36	17 17	3 34
18	We.	14 56	4 40	15 1	4 36	15 5	4 32
19	Th.	17 25	5 38	17 20	5 34	17 16	5 29
20	Fr.	14 59	6 33	15 3	6 29	15 8	6 26
21	Sa.	17 24	rises.	17 19	rises.	17 15	rises.
22	S	15 1	6 57	15 5	7 0	15 10	7 3
23	Mo.	17 22	8 9	17 18	8 11	17 14	8 13
24	Tu.	15 4	9 21	15 8	9 22	15 12	9 23
25	We.	17 21	10 32	17 16	10 32	17 12	10 32
26	Th.	15 6	11 42	15 10	11 41	15 14	11 40
27	Fr.	17 20	morn.	17 15	morn.	17 11	morn.
28	Sa.	15 9	0 51	15 13	0 49	15 17	0 47
29	S	17 17	1 57	17 13	1 54	17 10	1 52
30	Mo.	15 11	3 0	15 15	2 56	15 19	2 54
31	Tu.	17 15	4 0	17 12	3 56	17 8	3 53



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
New Moon.....	4d. 6h. 6m. M.	4d. 5h. 6m. M.
First Quarter.....	12d. 11h. 20m. M.	12d. 10h. 20m. M.
Full Moon.....	19d. 1h. 52m. A.	19d. 0h. 52m. A.
Last Quarter.....	26d. 5h. 4m. M.	26d. 4h. 4m. M.

LATITUDE OF BOSTON AND CHICAGO.		LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CIN. & ST. LOUIS.	
Day of Wk.	Local Mean Time.	Local Mean Time.	Local Mean Time.	Local Mean Time.	Local Mean Time.
Sun.	Moon.	Sun.	Moon.	Sun.	Moon.
R.&S.	R.&S.	R.&S.	R.&S.	R.&S.	R.&S.

1 We.	17 44	4 55	17 11	4 51	17 7	4 47
2 Th.	15 15	5 41	15 19	5 40	15 22	5 37
3 Fr.	17 12	6 28	17 9	6 24	17 5	6 22
4 Sa.	15 18	sets.	15 21	sets.	15 25	sets.
5 S.	17 10	6 42	17 7	6 44	17 3	6 47
6 Mo.	15 20	7 40	15 24	7 41	15 27	7 44
7 Tu.	17 8	8 38	17 5	8 39	17 1	8 40
8 We.	15 23	9 35	15 26	9 35	15 29	9 35
9 Th.	17 5	10 32	17 2	10 31	17 59	10 31
10 Fr.	15 26	11 29	15 28	11 27	15 32	11 26
11 Sa.	17 3	morn.	17 0	morn.	17 57	morn.
12 S.	15 28	0 26	15 31	0 23	15 31	0 22
13 Mo.	17 0	1 24	17 57	1 20	17 55	1 18
14 Tu.	15 31	2 22	15 33	2 18	15 36	2 15
15 We.	17 57	3 20	17 55	3 16	17 52	3 13
16 Th.	15 33	4 16	15 36	4 12	15 38	4 9
17 Fr.	17 53	5 8	17 52	5 4	17 50	5 1
18 Sa.	15 36	5 55	15 38	5 52	15 41	5 49
19 S.	17 52	rises.	17 49	rises.	17 47	rises.
20 Mo.	15 38	6 58	15 41	6 59	15 43	7 1
21 Tu.	17 49	8 13	17 46	8 13	17 44	8 14
22 We.	15 41	9 27	15 43	9 26	15 45	9 26
23 Th.	17 46	10 39	17 44	10 37	17 42	10 36
24 Fr.	15 43	11 48	15 45	11 45	15 47	11 43
25 Sa.	17 43	morn.	17 41	morn.	17 39	morn.
26 S.	15 46	0 54	15 48	0 50	15 49	0 48
27 Mo.	17 40	1 55	17 38	1 51	17 36	1 48
28 Tu.	15 48	2 51	15 50	2 47	15 51	2 44
29 We.	17 39	3 52	17 37	3 48	17 35	3 44
30 Th.	15 50	4 53	15 52	4 49	15 54	4 51
31 Fr.	17 36	5 54	17 34	5 50	17 32	5 49



MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
New Moon.....	6d. 0h. 19m. M.	5d. 11h. 19m. M.
First Quarter.....	14d. 3h. 59m. M.	14h. 3h. 59m. M.
Full Moon.....	22d. 11h. 55m. A.	22d. 10h. 55m. A.
Last Quarter.....	29d. 4h. 35m. A.	29d. 3h. 35m. A.

LATITUDE OF BOSTON AND CHICAGO.		LAT. OF NEW YORK AND PHILA.		LAT. OF WASH. CIN. & ST. LOUIS.	
Day of Wk.	Local Mean Time.	Local Mean Time.	Local Mean Time.	Local Mean Time.	Local Mean Time.
Sun.	Moon.	Sun.	Moon.	Sun.	Moon.
R.&S.	R.&S.	R.&S.	R.&S.	R.&S.	R.&S.

1 We.	16 30	3 42	16 35	3 38	16 33	3 35
2 Th.	15 51	4 27	15 52	4 23	15 53	4 20
3 Fr.	16 53	5 7	16 52	5 4	16 50	5 1
4 Sa.	15 53	5 42	15 54	5 39	15 56	5 38
5 S.	16 30	6 13	16 29	6 11	16 28	6 10
6 Mo.	15 56	sets.	15 57	sets.	15 58	sets.
7 Tu.	16 27	7 27	16 26	7 27	16 25	7 28
8 We.	15 58	8 24	15 59	8 23	16 0	8 23
9 Th.	16 23	9 21	16 22	9 19	16 22	9 19
10 Fr.	16 0	10 18	16 1	10 16	16 2	10 14
11 Sa.	16 20	11 15	16 19	11 12	16 19	11 10
12 S.	16 3	morn.	16 3	morn.	16 4	morn.
13 Mo.	16 16	0 12	16 16	0 8	16 15	0 6
14 Tu.	16 5	1 9	16 5	1 5	16 6	1 2
15 We.	16 13	2 4	16 13	2 0	16 12	1 56
16 Th.	16 7	2 56	16 8	2 52	16 8	2 49
17 Fr.	16 9	3 44	16 9	3 40	16 9	3 38
18 Sa.	16 10	4 28	16 10	4 25	16 10	4 23
19 S.	16 6	5 9	16 6	5 7	16 6	5 6
20 Mo.	16 12	5 49	16 12	5 48	16 12	5 48
21 Tu.	16 3	rises.	16 3	rises.	16 3	rises.
22 We.	16 14	8 16	16 14	8 14	16 14	8 14
23 Th.	15 59	9 29	15 59	9 27	16 0	9 25
24 Fr.	16 16	10 39	16 16	10 36	16 15	10 33
25 Sa.	15 56	11 45	15 56	11 41	15 57	11 38
26 S.	16 18	morn.	16 18	morn.	16 17	morn.
27 Mo.	15 52	0 46	15 53	0 42	15 53	0 39
28 Tu.	16 21	1 40	16 20	1 36	16 19	1 33
29 We.	15 49	2 27	15 49	2 23	15 50	2 20
30 Th.	16 23	3 8	16 22	3 4	16 21	3 2
31 Fr.	15 45	3 44	15 46	3 41	15 47	3 39



MOON'S PHASES. (on Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
New Moon.....	4d. 6h. 23m. A.	4d. 5h. 23m. A.
First Quarter...	12d. 4h. 41m. A.	12d. 3h. 41m. A.
Full Moon.....	19d. 8h. 31m. M.	19d. 7h. 31m. M.
Last Quarter....	26d. 6h. 13m. M.	26d. 5h. 13m. M.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. CIN. & ST. LOUIS.			
Day.	Day of Wk.	Local Mean Time.	Sen. R.&S.	Moon R.&S.	Local Mean Time.	Sen. R.&S.	Moon R.&S.	Local Mean Time.	Sen. R.&S.	Moon R.&S.	Local Mean Time.

1	Sa.	15 43	4 17	15 44	4 15	15 46	4 14				
2	Su.	16 26	4 47	16 25	4 46	16 24	4 45				
3	Mo.	15 40	5 15	15 41	5 14	15 43	5 15				
4	Tu.	16 29	sets.	16 27	sets.	16 26	sets.				
5	We.	15 36	7 16	15 38	7 15	15 39	7 14				
6	Th.	16 31	8 12	16 29	8 10	16 28	8 8				
7	Fr.	15 33	9 10	15 35	9 7	15 36	9 5				
8	Sa.	16 33	10 8	16 32	10 4	16 30	10 2				
9	Su.	15 30	11 4	15 31	11 0	15 33	10 57				
10	Mo.	16 35	11 58	16 34	11 54	16 32	11 51				
11	Tu.	15 26	morn.	15 28	morn.	15 30	morn.				
12	We.	16 38	0 49	16 36	0 45	16 34	0 42				
13	Th.	15 23	1 37	15 25	1 33	15 27	1 30				
14	Fr.	16 40	2 21	16 38	2 17	16 36	2 15				
15	Sa.	15 20	3 2	15 22	2 59	15 24	2 58				
16	Su.	16 42	3 42	16 40	3 40	16 38	3 40				
17	Mo.	15 17	4 30	15 19	4 19	15 21	4 20				
18	Tu.	16 41	4 55	16 42	4 55	16 39	4 57				
19	We.	15 14	rises.	15 16	rises.	15 19	rises.				
20	Th.	16 46	8 16	16 44	8 13	16 41	8 11				
21	Fr.	15 10	9 26	15 13	9 22	15 16	9 20				
22	Sa.	16 49	10 32	16 46	10 28	16 43	10 25				
23	Su.	15 7	11 31	15 10	11 27	15 13	11 22				
24	Mo.	16 51	morn.	16 48	morn.	16 45	morn.				
25	Tu.	15 4	0 22	15 7	0 18	15 10	0 15				
26	We.	16 53	1 6	16 50	1 2	16 47	1 0				
27	Th.	15 1	1 45	15 4	1 42	15 8	1 40				
28	Fr.	16 55	2 19	16 52	2 17	16 49	2 15				
29	Sa.	14 59	2 50	15 2	2 48	15 5	2 48				
30	Su.	16 58	3 19	16 54	3 18	16 51	3 18				



MOON'S PHASES. (on Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
New Moon.....	4d. 10h. 50m. M.	4d. 9h. 50m. M.
First Quarter...	12d. 7h. 46m. M.	12d. 6h. 46m. M.
Full Moon.....	18d. 4h. 36m. A.	18d. 3h. 36m. A.
Last Quarter....	25d. 9h. 50m. A.	25d. 8h. 50m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. CIN. & ST. LOUIS.			
Day.	Day of Wk.	Local Mean Time.	Sen. R.&S.	Moon R.&S.	Local Mean Time.	Sen. R.&S.	Moon R.&S.	Local Mean Time.	Sen. R.&S.	Moon R.&S.	Local Mean Time.

1	Mo.	14 56	3 47	14 59	3 47	15 3	3 48				
2	Tu.	17 0	4 14	16 56	4 15	16 53	4 17				
3	We.	14 53	4 41	14 57	4 43	15 0	4 45				
4	Th.	17 2	sets.	16 58	sets.	16 55	sets.				
5	Fr.	14 50	8 2	14 54	7 59	14 58	7 56				
6	Sa.	17 4	8 59	17 1	8 55	16 57	8 52				
7	Su.	14 48	9 55	14 52	9 51	14 56	9 46				
8	Mo.	17 6	10 48	17 3	10 44	16 58	10 39				
9	Tu.	14 46	11 37	14 49	11 33	14 54	11 30				
10	We.	17 9	morn.	17 5	morn.	17 0	morn.				
11	Th.	14 43	0 21	14 47	0 17	14 52	0 15				
12	Fr.	17 11	1 2	17 7	0 59	17 2	0 57				
13	Sa.	14 41	1 40	14 45	1 38	14 50	1 37				
14	Su.	17 13	2 16	17 9	2 15	17 4	2 15				
15	Mo.	14 39	2 51	14 43	2 51	14 48	2 52				
16	Tu.	17 15	3 27	17 11	3 28	17 6	3 30				
17	We.	14 37	4 4	14 41	4 6	14 46	4 9				
18	Th.	17 17	rises.	17 12	rises.	17 8	rises.				
19	Fr.	14 35	8 12	14 40	8 8	14 44	8 5				
20	Sa.	17 19	9 16	17 14	9 12	17 9	9 7				
21	Su.	14 33	10 13	14 38	10 9	14 43	10 4				
22	Mo.	17 21	11 2	17 16	10 58	17 11	10 55				
23	Tu.	14 32	11 44	14 36	11 41	14 41	11 38				
24	We.	17 23	morn.	17 18	morn.	17 13	morn.				
25	Th.	14 30	0 20	14 35	0 17	14 40	0 15				
26	Fr.	17 25	0 52	17 19	0 50	17 14	0 49				
27	Sa.	14 28	1 21	14 34	1 20	14 39	1 19				
28	Su.	17 26	1 49	17 21	1 49	17 16	1 49				
29	Mo.	14 27	2 17	14 32	2 17	14 38	2 19				
30	Tu.	17 28	2 45	17 23	2 46	17 17	2 49				
31	We.	14 26	3 14	14 31	3 16	14 37	3 19				



MOON'S PHASES. (On Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
NEW MOON.....	3d. oh. 56m. A.	ad. 11h. 56m. A.
FIRST QUARTER...	10d. 8h. 5m. M.	10d. 7h. 5m. M.
FULL MOON.....	17d. oh. 53m. A.	16d. 11h. 51m. A.
LAST QUARTER....	24d. 2h. 46m. A.	24d. 1h. 46m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. D.C. & ST. LOUIS.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.
1	Th.	F4	26	3 46	F4	31	3 49	F4	36	3 53	
2	Fr.	F7	30	4 21	F7	25	4 24	F7	19	4 29	
3	Sa.	F4	25	sets.	F4	30	sets.	F4	36	sets.	
4	Su.	F7	32	8 44	F7	26	8 40	F7	21	8 35	
5	Mo.	F4	24	9 35	F4	29	9 31	F4	35	9 26	
6	Tu.	F7	33	10 22	F7	28	10 18	F7	22	10 15	
7	We.	F4	23	11 4	F4	29	11 1	F4	34	10 58	
8	Th.	F7	34	11 42	F7	29	11 40	F7	23	11 38	
9	Fr.	F4	23	morn.	F4	28	morn.	F4	34	morn.	
10	Sa.	F7	36	0 18	F7	30	0 16	F7	24	0 16	
11	Su.	F4	22	0 52	F4	28	0 51	F4	34	0 52	
12	Mo.	F7	37	1 26	F7	31	1 26	F7	25	1 28	
13	Tu.	F4	22	2 1	F4	28	2 3	F4	34	2 5	
14	We.	F7	38	2 39	F7	32	2 41	F7	26	2 45	
15	Th.	F4	22	3 20	F4	28	3 23	F4	34	3 28	
16	Fr.	F7	38	rises.	F7	33	rises.	F7	27	rises.	
17	Sa.	F4	22	7 59	F4	28	7 55	F4	34	7 50	
18	Su.	F7	39	8 52	F7	33	8 48	F7	27	8 45	
19	Mo.	F4	23	9 38	F4	28	9 34	F4	34	9 32	
20	Tu.	F7	40	10 18	F7	34	10 15	F7	28	10 13	
21	We.	F4	23	10 53	F4	29	10 51	F4	34	10 49	
22	Th.	F7	40	11 24	F7	34	11 22	F7	29	11 22	
23	Fr.	F4	23	11 53	F4	29	11 52	F4	35	11 52	
24	Sa.	F7	40	morn.	F7	35	morn.	F7	29	morn.	
25	Su.	F4	24	0 20	F4	30	0 20	F4	35	0 21	
26	Mo.	F7	40	0 47	F7	35	0 48	F7	29	0 50	
27	Tu.	F4	25	1 15	F4	30	1 17	F4	36	1 19	
28	We.	F7	40	1 45	F7	35	1 47	F7	29	1 51	
29	Th.	F4	25	2 18	F4	31	2 21	F4	37	2 25	
30	Fr.	F7	40	2 56	F7	35	3 0	F7	29	3 5	



MOON'S PHASES. (On Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
NEW MOON.....	2d. oh. 50m. A.	ad. 11h. 50m. M.
FIRST QUARTER...	9d. oh. 40m. A.	9d. 11h. 40m. M.
FULL MOON.....	16d. 10h. 32m. M.	16d. 9h. 32m. M.
LAST QUARTER....	23d. 8h. 30m. A.	23d. 7h. 30m. A.
NEW MOON.....	30d. 11h. 3m. A.	30d. 10h. 3m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. D.C. & ST. LOUIS.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.
1	Sa.	F4	26	3 41	F4	32	3 45	F4	38	3 50	
2	Su.	F7	40	sets.	F7	35	sets.	F7	29	sets.	
3	Mo.	F4	27	8 19	F4	33	8 15	F4	39	8 12	
4	Tu.	F7	40	9 1	F7	34	9 1	F7	29	8 58	
5	We.	F4	29	9 44	F4	34	9 41	F4	40	9 40	
6	Th.	F7	39	10 20	F7	34	10 18	F7	28	10 17	
7	Fr.	F4	29	10 54	F4	36	10 53	F4	41	10 53	
8	Sa.	F7	38	11 28	F7	33	11 28	F7	28	11 29	
9	Su.	F4	31	morn.	F4	37	morn.	F4	42	morn.	
10	Mo.	F7	38	0 3	F7	35	0 4	F7	27	0 6	
11	Tu.	F4	33	0 39	F4	38	0 41	F4	43	0 44	
12	We.	F7	37	1 17	F7	32	1 20	F7	26	1 24	
13	Th.	F4	34	2 0	F4	39	2 4	F4	45	2 8	
14	Fr.	F7	36	2 48	F7	31	2 52	F7	25	2 57	
15	Sa.	F4	36	3 40	F4	41	3 44	F4	46	3 50	
16	Su.	F7	34	rises.	F7	29	rises.	F7	24	rises.	
17	Mo.	F4	38	8 13	F4	42	8 10	F4	48	8 7	
18	Tu.	F7	33	8 51	F7	28	8 48	F7	23	8 46	
19	We.	F4	39	9 24	F4	44	9 22	F4	49	9 21	
20	Th.	F7	32	9 54	F7	27	9 53	F7	22	9 53	
21	Fr.	F4	41	10 22	F4	46	10 22	F4	51	10 22	
22	Sa.	F7	30	10 49	F7	25	10 50	F7	20	10 51	
23	Su.	F4	43	11 16	F4	47	11 17	F4	52	11 20	
24	Mo.	F7	28	11 45	F7	24	11 47	F7	19	11 50	
25	Tu.	F4	45	morn.	F4	49	morn.	F4	54	morn.	
26	We.	F7	26	0 17	F7	22	0 20	F7	17	0 24	
27	Th.	F4	47	0 53	F4	51	0 56	F4	56	1 1	
28	Fr.	F7	24	1 34	F7	20	1 38	F7	15	1 43	
29	Sa.	F4	49	2 20	F4	53	2 24	F4	57	2 30	
30	Su.	F7	22	3 13	F7	18	3 17	F7	13	3 23	
31	Mo.	F4	51	sets.	F4	55	sets.	F4	59	sets.	



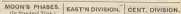
MOON'S PHASES. (On Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
FIRST QUARTER...	7d. 5h. 36m. A.	7d. 4h. 16m. A.
FULL MOON.....	14d. 10h. 31m. A.	14d. 9h. 31m. A.
LAST QUARTER...	21d. 1h. 10m. M.	21d. 0h. 10m. M.
NEW MOON....	28d. 8h. 13m. M.	28d. 7h. 13m. M.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. D.C. & ST. LOUIS.			
Local Mean Time.				Local Mean Time.				Local Mean Time.			
Day of Wk.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.
1 Tu.	74	52	7 41	74	56	7 38	75	0	7 36		
2 We.	77	19	8 21	77	15	8 19	77	11	8 18		
3 Th.	74	54	8 57	74	58	8 56	75	2	8 56		
4 Fr.	77	16	9 32	77	13	9 32	77	8	9 33		
5 Sa.	74	56	10 7	75	0	10 8	75	4	10 10		
6 S.	77	14	10 42	77	10	10 44	77	6	10 47		
7 Mo.	74	58	11 19	75	2	11 22	75	5	11 25		
8 Tu.	77	11	11 59	77	8	11 59	77	4	11 59		
9 We.	75	0	12 30	75	3	12 30	75	7	12 30		
10 Th.	77	9	0 44	77	5	0 48	77	2	0 53		
11 Fr.	75	2	1 34	75	5	1 38	75	9	1 44		
12 Sa.	77	6	2 29	77	3	2 33	76	59	2 39		
13 S.	75	4	3 28	75	7	3 32	75	11	3 37		
14 Mo.	77	3	4 19	77	0	4 23	76	56	4 29		
15 Tu.	75	6	5 13	75	9	5 17	75	13	5 21		
16 We.	77	0	6 03	77	7	6 07	76	54	6 13		
17 Th.	75	8	6 57	75	11	7 01	75	15	7 05		
18 Fr.	76	57	7 51	76	54	7 51	76	51	7 52		
19 Sa.	75	11	8 46	75	13	8 46	75	16	8 46		
20 S.	76	54	9 40	76	51	9 40	76	49	9 42		
21 Mo.	75	13	10 35	75	15	10 35	75	18	10 35		
22 Tu.	76	51	11 30	76	48	11 30	76	46	11 30		
23 We.	75	15	12 25	75	17	12 25	75	20	12 25		
24 Th.	76	48	1 20	76	45	1 20	76	43	1 20		
25 Fr.	75	17	2 15	75	19	2 15	75	22	2 15		
26 Sa.	76	45	3 10	76	42	3 10	76	40	3 10		
27 S.	75	19	4 05	75	21	4 05	75	24	4 05		
28 Mo.	76	41	5 00	76	39	5 00	76	38	5 00		
29 Tu.	75	21	5 55	75	23	5 55	75	26	5 55		
30 We.	76	38	6 50	76	36	6 50	76	34	6 50		
31 Th.	75	23	7 45	75	25	7 45	75	27	7 45		



MOON'S PHASES. (On Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
FIRST QUARTER...	5d. 11h. 9m. A.	5d. 10h. 9m. A.
FULL MOON.....	12d. 5h. 10m. A.	12d. 4h. 10m. A.
LAST QUARTER...	19d. 5h. 13m. A.	19d. 4h. 13m. A.
NEW MOON....	26d. 4h. 57m. A.	26d. 3h. 57m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. D.C. & ST. LOUIS.			
Local Mean Time.				Local Mean Time.				Local Mean Time.			
Day of Wk.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.	Local Mean Time.	Sun R.&S.	Moon R.&S.
1 Fr.	75	24	8 5	75	26	8 5	75	28	8 7		
2 Sa.	76	33	8 41	76	31	8 42	76	29	8 45		
3 S.	75	26	9 19	75	28	9 21	75	30	9 25		
4 Mo.	76	30	9 59	76	28	10 2	76	26	10 7		
5 Tu.	75	29	10 43	75	30	10 47	75	32	10 52		
6 We.	76	26	11 31	76	25	11 35	76	23	11 41		
7 Th.	75	31	12 21	75	32	12 25	75	34	12 29		
8 Fr.	76	23	0 24	76	22	0 28	76	20	0 34		
9 Sa.	75	33	1 20	75	34	1 24	75	35	1 29		
10 S.	76	19	2 19	76	18	2 23	76	17	2 27		
11 Mo.	75	35	3 19	75	36	3 22	75	37	3 26		
12 Tu.	76	16	4 20	76	15	4 22	76	14	4 26		
13 We.	75	37	5 21	75	38	5 24	75	39	5 28		
14 Th.	76	12	6 23	76	12	6 25	76	11	6 24		
15 Fr.	75	39	7 21	75	40	7 22	75	41	7 23		
16 Sa.	76	9	8 19	76	8	8 21	76	7	8 23		
17 S.	75	41	9 18	75	42	9 20	75	42	9 24		
18 Mo.	76	5	10 19	76	5	10 21	76	4	10 23		
19 Tu.	75	43	11 20	75	44	11 22	75	44	11 24		
20 We.	76	2	12 21	76	1	12 23	76	1	12 25		
21 Th.	75	46	1 22	75	46	1 24	75	46	1 26		
22 Fr.	75	58	2 23	75	58	2 25	75	58	2 27		
23 Sa.	75	48	3 24	75	48	3 26	75	48	3 28		
24 S.	75	55	4 25	75	55	4 27	75	55	4 29		
25 Mo.	75	50	5 26	75	50	5 28	75	50	5 30		
26 Tu.	75	51	6 27	75	51	6 29	75	51	6 31		
27 We.	75	52	7 28	75	52	7 30	75	52	7 32		
28 Th.	75	48	8 29	75	48	8 31	75	48	8 33		
29 Fr.	75	54	9 30	75	54	9 32	75	54	9 34		
30 Sa.	75	44	10 31	75	45	10 33	75	45	10 35		



LATITUDE OF BOSTON AND CHICAGO	LAT. OF NEW YORK	LAT. OF WASH. AND PHILA.	LAT. OF ST. LOUIS
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MOON'S PHASES. (In Standard Time.)	EAST'N DIVISION.	CENT. DIVISION.
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LATITUDE OF BOSTON AND CHICAGO.	LAT. OF NEW YORK AND PHILA.	LAT. OF WASH. DC. & ST. LOUIS
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Day.	Last New Moon		Last Full Moon		Last New Moon	
	Day of Wk.	R. & S.	Day of Wk.	R. & S.	Day of Wk.	R. & S.
1	We.	6 33	9	5 30	9	9 9
2	Th.	14 52	10	5 36	10	9 50
3	Fr.	16 35	11	5 32	11	9 29
4	Sa.	14 50	moon	5 34	moon	14 57
5	Su.	16 38	0	5 36	0	16 31
6	Mo.	14 48	1	5 41	1	14 55
7	Tu.	16 40	2	5 36	2	16 34
8	We.	14 46	3	5 44	3	14 53
9	Th.	16 43	4	5 39	4	16 36
10	Fr.	14 44	4	5 58	4	14 57
11	Sa.	16 45	5	5 47	5	16 38
12	Su.	14 41	rises.	5 45	rises.	14 49
13	Mo.	16 48	6	5 44	6	16 40
14	Tu.	14 40	6	5 43	6	14 47
15	We.	16 51	7	5 29	7	16 42
16	Th.	14 38	8	5 42	8	14 46
17	Fr.	16 53	9	5 18	9	16 45
18	Sa.	14 36	10	5 48	10	14 45
19	Su.	16 55	11	5 26	11	16 47
20	Mo.	14 35	moon	5 39	moon	14 43
21	Tu.	16 58	0	5 30	0	16 49
22	We.	14 33	1	5 40	1	14 42
23	Th.	17 0	2	5 36	2	16 51
24	Fr.	14 32	4	5 37	4	14 41
25	Sa.	17 3	5	5 22	5	16 58
26	Su.	14 31	sets.	5 36	sets.	14 54
27	Mo.	17 5	5	5 07	0	16 55
28	Tu.	14 30	6	5 45	6	14 59
29	We.	17 7	7	4 48	7	16 57
30	Th.	14 29	8	5 37	8	14 34



MOON'S PHASES.
(In Standard Time.)

MOON'S PHASES.	EAST'N DIVISION.	CENT. DIVISION.
FIRST QUARTER...	3d. 2h. 37m. A.	3d. 0h. 37m. A.
FULL MOON.....	11d. 6h. 26m. A.	11d. 5h. 26m. A.
LAST QUARTER....	19d. 7h. 3m. A.	19d. 6h. 3m. A.
NEW MOON.....	27d. 12h. 3m. A.	27d. 10h. 3m. A.

LATITUDE OF BOSTON AND CHICAGO.				LAT. OF NEW YORK AND PHILA.				LAT. OF WASH. D.C. & ST. LOUIS.			
Local Mean Time.				Local Mean Time.				Local Mean Time.			
Day.	Day of Wk.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.	Sun R.&S.	Moon R.&S.

1	FR.	7	9	9 53	7	4	9 56	7 6	59	10	0
2	SA.	7	10	10 55	7	4	10 57	7 6	59	11	1
3	S.	7	11	11 56	7	6	11 58	7 7	1	morn	
4	MO.	7	12	morn	7	6	morn	7 7	1	0	0
5	TU.	7	13	0 55	7	8	0 56	7 7	3	0	57
6	WE.	7	14	1 53	7	8	1 53	7 7	3	1	51
7	TH.	7	15	2 50	7	10	2 49	7 7	5	2	49
8	FR.	7	16	3 47	7	10	3 45	7 7	5	3	44
9	SA.	7	17	4 44	7	12	4 41	7 7	7	4	40
10	S.	7	18	5 42	7	12	5 39	7 7	7	5	36
11	MO.	7	19	rises	7	14	rises	7 7	8	rises.	
12	TU.	7	20	5 26	7	14	5 30	7 7	8	5	36
13	WE.	7	21	6 16	7	16	6 20	7 7	10	6	26
14	TH.	7	22	7 11	7	16	7 15	7 7	10	7	21
15	FR.	7	23	8 12	7	17	8 16	7 7	11	8	20
16	SA.	7	24	9 16	7	18	9 19	7 7	11	9	23
17	S.	7	25	10 21	7	18	10 23	7 7	13	10	26
18	MO.	7	26	11 28	7	19	11 29	7 7	14	11	31
19	TU.	7	27	morn	7	20	morn	7 7	14	morn	
20	WE.	7	28	0 37	7	20	0 37	7 7	14	0	38
21	TH.	7	29	1 47	7	21	1 46	7 7	15	1	46
22	FR.	7	30	2 58	7	22	2 56	7 7	15	2	55
23	SA.	7	31	4 11	7	22	4 8	7 7	16	4	6
24	S.	7	1	5 23	7	23	5 19	7 7	16	5	16
25	MO.	7	2	6 33	7	23	6 29	7 7	17	6	24
26	TU.	7	3	sets.	7	24	sets.	7 7	17	sets.	
27	WE.	7	4	6 30	7	24	6 34	7 7	18	6	39
28	TH.	7	5	7 34	7	24	7 38	7 7	18	7	42
29	FR.	7	6	8 38	7	24	8 41	7 7	18	8	45
30	SA.	7	7	9 41	7	24	9 43	7 7	19	9	46
31	S.	7	8	10 43	7	24	10 44	7 7	19	10	46

Ther. SUNDAY, JAN. 1, 1905 Wea.

The New Year finds me
visiting my good friends
the Estey's in Lincoln.

Ther. MONDAY 2 Wea.

I return to Burlington
bringing Willard F. Estey Jr.
with me.

Ther.

TUESDAY, JAN. 3, 1905

Wea.

We spend the better part of the day down town making purchases.

Ther.

THURSDAY, JAN. 5, 1905

Wea.

I continue until late at night my distributing of Palmer's plants.

Ther.

WEDNESDAY 4

Wea.

I made a good beginning at distributing into cases the plants flunk down last winter by Elmer and just now shipped by Alfred Weiss.

They are A. S. Es. Elmer's California and Washington collections which are first taken in hand.

Ther.

FRIDAY 6

Wea.

Little.

Ther. SATURDAY, JAN. 7, 1905 Wea.

I finish distributing before noon, when I take train to go to Middletown to visit friends.

Ther. MONDAY, JAN. 9, 1905 Wea.

Return to Burlington by 4.25 P.M. and spend the evening distributing plants.

Ther. SUNDAY 8 Wea.

visiting the Brindles in Middletown.

Ther. TUESDAY 10 Wea.

Occupied with errands down town and with visitor Jerome, Chase and Dr. Stoddard till 3.00 P.M. Then I distribute plants till 10.00 P.M.

Ther. WEDNESDAY, JAN. 11, 1905 Wea.

Until 4.00 P.M. I give attention to the framing of photographs of botanists and assistants going down town in the matter and selecting autographs to be attached to the pictures; then I distribute plants till 9.15 P.M.

Ther. THURSDAY 12 Wea.

I distribute plants and in the evening begin trimming some genus covers in the herbarium of the Old World plants that are too wide.

Ther. FRIDAY, JAN. 13, 1905 Wea.

I continue trimming genus covers till late at night.

Ther. SATURDAY 14 Wea.

I finish trimming genus covers.

Ther. SUNDAY, JAN. 15, 1905 Wea.

I mount specimens of
my pines of Pl. Mex., 1904.

Ther. TUESDAY, JAN. 17, 1905 Wea.

Still mounting pine
specimens, then doing jobs.

Ther. MONDAY 16 Wea.

I continue mounting
pine specimens in pre-
paration for a talk
before the University Bot-
anical Club which I
deliver in the evening.

Ther. WEDNESDAY 18 Wea.

Mounting pine specimens
and preparing to speak 4.00 to
5 P.M. before the Vermont
Botanical Club on Pine Hunting
in Mexico.

In the evening attend the
supper and roll-call held
in the gymnasium.

Ther. THURSDAY, JAN. 19, 1905 Wea.

Attend the botanical meeting in the forenoon and spend the afternoon in the herbarium.

Ther. SATURDAY, JAN. 21, 1905 Wea.

I call at my brother's and cousin Kate's in the early morning then from 9.00 A. M. till 12 M. ride back to Burlington with Frank on his load of hay.

Then get back to my work in some degree putting plants into cases, etc.

Ther. FRIDAY 20 Wea.

I put pine specimens into cases after they have been remounted on heavy Bristol Board.

6.00 to 9.00 P. M. ride home to Charlotte with Frank.

Ther. SUNDAY 22 Wea.

I am pleasantly engaged determining a lot of plants brought me from Alaska by Fred Swift.

In the evening receive visits from Harris and Florence Bradley.

Ther. MONDAY, JAN. 23, 1905 Wea.

I finish determining the
Alaskan plants and poison
them.

Ther. WEDNESDAY, JAN. 25, 1905 Wea.

I redistribute foreign
plants through the cases
lately provided in extension.
after writing to Silomon.

Ther. TUESDAY 24 Wea.

In the forenoon I mount
the Alaskan plants.

In the afternoon distrib-
ute them and strap and
distribute 36 sheets of foreign
plants, mounted today by
Mr. Weise.

Ther. THURSDAY 26 Wea.

I rise as usual before 7.00
A. M., get to work by 8.00
A. M., finish arranging plants
in newly reconstructed
cases by 11.00 A. M.; then
work till nearly 11.00 P. M.
Strapping and distributing
sheets mounted recently
by Mr. Weise.

Ther.

FRIDAY, JAN. 27, 1905

Wen.

I continue trapping
and distributing into cases
mounted plants.

Ther.

SUNDAY, JAN. 29, 1905

Wen.

I mount a lot of
Potamogeton specimens
from Bavaria, dine
with Mr. Armstrong
and his family, and
in the evening distrib-
ute many old world
plants into cases.

Ther.

SATURDAY 28

Wen.

I receive calls from
Mr. Fassett and George
Read;
and trap plants.

Ther.

MONDAY 30

Wen.

I lay out specimens
for Mr. Weise to mount
during the forenoon;
give attention during the
afternoon to reports on
my last collections, etc.,
and in the evening dis-
tribute mounted plants.

Ther. TUESDAY, JAN. 31, 1905 Wer.

I trap down fully specimens glued down by Mr. Wise until 6.00 P.M. Then put them into their places in the cases until 11.30 P.M.

These are the last of the Old World plants received from Otto Leonhardt in 1903.

Ther. WEDNESDAY, FEB. 1 Wer.

We mount three small lots of selections from plants received from Florida, Guatemala, Venezuela, and Colorado, and I get about half of them into the cases by 10.30 P.M.

Ther. THURSDAY, FEB. 2, 1905 Wer.

We begin mounting the plants sent me from Japan two or three years ago, Mr. Wise gluing the specimens to sheets, I fastening them in places with glued strips of paper or with wires, and finally putting them into cases till 9.30 P.M.

Ther. FRIDAY 3 Wer.

We keep at our task, I working till 11.30 P.M.

Ther. SATURDAY, FEB. 4, 1905 Wea.

Keeping at our task
we mount ferns, etc.

Ther. MONDAY, FEB. 6, 1905 Wea.

Mr. Weise glues down
176 specimens, (38 of these
grasses,) and I fasten the
grasses with strips or
wires and get them into
the cases by 10.30 P.M.
besides laying out the
specimens to be mounted.

Ther. SUNDAY 5 Wea.

So takes me all
day and until 9.00
P.M. to bring up the
arrear of the week by
preparing genus-covers
for mounted specimens
and putting them into
their proper places in
the herbarium cases.

Ther. TUESDAY 7 Wea.

I send Xilemon \$80.00
as passage money to come on
to New York by steamer -
Entertain callers

Enter plant names (re-
cent determinations) on
my list and copy for
labels.

And lay out plants
for Mr. Weise to mount.

Ther. WEDNESDAY, FEB. 8, 1905 Wea.

I put plants into the cases in the forenoon then strap down specimens glued down by Mr. Weiss till 10, 30 P.M.

Ther. FRIDAY, FEB. 10, 1905 Wea.

Today we finish mounting and putting into cases the collection of plants from Japan.

Ther. THURSDAY 9 Wea.

During the forenoon after writing to Prof. Mizaki of Sapporo, Japan to offer an exchange of botanical specimens, I lay out the last of the Japanese plants for mounting; in the afternoon 2.00 P.M. till 9.00 P.M. I put into the cases the plants mounted yesterday.

Ther. SATURDAY 11 Wea.

I write to Mr. Rugg of Dartmouth, prepare and send copy for tickets for the plants of my next sets to Mr. Patterson - We mount a lot of plants, more than 100, mostly Asclepiads and orchids, gathered by Rudolf Schlichter in Africa, and I get them into the cases by 10.00 P.M.

Ther.

SUNDAY, FEB. 12, 1905

Wea.

With only slight interruptions from callers I prepare for poisoning and mounting three hundred specimens of the Leonhardt 1903 box of plants.

His box is found to contain 1200 specimens by his count, of which 300 are cryptogams - mosses and lichens.

Ther.

MONDAY 13

Wea.

Mr. Wein poisons 400 of the Leonhardt plants, and begins mounting them, while I prepare some more of the same lot of specimens, etc.

Ther.

TUESDAY, FEB. 14, 1905

Wea.

We work on Leonhardt plants.

I am gratified to find among them many fine specimens collected in the Transcaspian region by Dr. Sintenis.

Ther.

WEDNESDAY 15

Wea.

We keep at our task on Leonhardt plants.

Ther. THURSDAY, FEB. 16, 1905 Wea.

Dolls -

Ther. SATURDAY, FEB. 18, 1905 Wea.

I strap six bunches
of mounted plants by
11.00 P.M.

Ther. FRIDAY 17 Wea.

I clean and select
300 specimens of Leon-
hardt plants, and
after Mr. Weise has
poisoned them arrange
them on sheets for his
mounting.

And in the afternoon
receive a visit from
Sarah W. Ems now
here as a student -

Ther. SUNDAY 19 Wea.

I put into cases five
bunches of mounted
plants.
and dine with the
Storrses -

Ther.

MONDAY, FEB. 20, 1905

Wea.

We finish mounting the Leonhardt plants of 1904 as to the flowering plants, and get them all into the cases.

Ther.

WEDNESDAY, FEB. 22, 1905

Wea.

This, Washington's Birthday, being a holiday, Mr. Weiss is excused from work and I am left alone with an opportunity to do various little jobs and write a few letters.

In the evening I attend the Karle Walk in the Gymnasium.

Ther.

TUESDAY 21

Wea.

We begin work on A. H. Curtiss' collection of 300 species gathered last year on the Isle of Pines, Cuba.

Today I am warned by my hands getting unsteady and by my mind getting clouded and forgetful, that I have been working too intensely of late and have not allowed myself sufficient sleep - that I must make haste slowly -

Ther.

THURSDAY 23

Wea.

We return to work on the Curtiss plants, poisoning mountain and arranging

Ther. FRIDAY, FEB. 24, 1905 Wea.

We keep at work on the Curtiss plants.

Ther. SUNDAY, FEB. 26, 1905 Wea.

I finish putting into cases the plants mounted yesterday, then prepare for poisoning and mounting a lot of specimens of *Crataegus* from Mr. Baxter of Rochester.

Finally in the evening assort more old plants received from Berlin chiefly collected by Sellow in Brazil, 1819-1826.

Ther. SATURDAY 25 Wea.

We finish mounting the Curtiss plants and then mount and put into cases a lot of Mexican and Central American plants collected many years ago of Schrebendy and others and send here from Berlin.

Ther. MONDAY 27 Wea.

I prepare more old specimens of the plants sent from Berlin, entertain company, and in the evening strap and put into cases the specimens of *Crataegus* which Mr. Weiss had mounted in the forenoon.

Ther. TUESDAY, FEB. 28, 1905 Wea.

We continue work upon
the plants from Berlin.

Mr. Carpenter of Mid-
dletown visits me for an
hour this morning.

Ther. WEDNESDAY, MAR. 1 Wea.

We keep at work
on the plants from
Berlin chiefly South
American species.

Ther. THURSDAY, MARCH 2, 1905 Wea.

Little.

Ther. FRIDAY 3 Wea.

Little.

Ther. SATURDAY, MARCH 4, 1905

Wea.

Sitto.

Ther. MONDAY, MARCH 6, 1905

Wea.

Sitto.

Ther. SUNDAY 5

Wea.

Sitto.

Ther.

TUESDAY 7

Wea.

Sitto.

Ther. WEDNESDAY, MARCH 8, 1905 Wea.

Mr. Wise finishes
gluing down the plants
sent from Berlin,
and we begin mounting
a large collection from
J. H. Maiden of Geelong,
Australia.

Ther. FRIDAY, MARCH 10, 1905 Wea.

Sitto

Ther. THURSDAY 9 Wea.

We keep at the
Sydney collection
and I get into cases
some of the South
American plants
from Berlin, as I try
to bring up arrears.

Ther. SATURDAY 11 Wea.

Sitto

Ther. SUNDAY, MARCH 12, 1905 Wea.

I put into cases many plants from South America and Africa.

Ther. TUESDAY, MARCH 14, 1905 Wea.

We work upon Australian plants.

Ther. MONDAY 13 Wea.

Today at noon I finish putting into cases the last of the plants received from the Royal Museum of Berlin, being a lot collected in Africa -

In the afternoon and evening I strap down plants from Australia.

Ther. WEDNESDAY 15 Wea.

Still.

Ther. THURSDAY, MARCH 16, 1905 Wea.

Hills.

Ther. SATURDAY, MARCH 18, 1905 Wea.

Hills.

Ther. FRIDAY 17 Wea.

Hills.

Ther. SUNDAY 19 Wea.

Hills.

Ther. MONDAY, MARCH 20, 1905 Wea.

Sitto.

Ther. WEDNESDAY, MARCH 22, 1905 Wea.

Sitto.

Ther. TUESDAY 21 Wea.

Sitto.

Ther. THURSDAY 23 Wea.

Sitto.

I go to New York to meet Filimon who sailed from Vampico on the Ward Line Steamer Matanzas on the 17th inst.

William F. Nye bears me company. We leave Burlington at 8.30 A. M. and arrive in New York at 5.

We go first to the Ward Line office in Wall Street and are there informed that the Matanzas will not arrive before tomorrow or perhaps not before Monday.

So we cross the first Brooklyn Bridge and spend a few hours in the Brooklyn Navy Yard.

Next we go up to Bronx Park by 3rd Avenue cars visit the greenhouses and Mr. Nash, the Museum and Dr. & Mrs. Britton and their associate botanists, finally with Mr. Engstrom ^{Thy} 200

We go early to the Ward Line office and look in Broad Street in a vain quest for intelligence of the Matanzas, then take a trip to the Statue of Liberty, back to Wall Street, then to the American Museum of Natural History. Returning, I go to Wall Street docks and hear of the arrival of the steamer at Havemeyer's Wharf in Brooklyn, cross over and find Filimon gone to New York City and follow him to 14th St.

We three set out to see sights: first the "flat-iron" building, at the intersection of Broadway and Fifth Avenue, then the American Museum of Natural History and after dining at a restaurant in 3rd Avenue the Zoological Gardens in Bronx Park.

Ther. TUESDAY, MARCH 28, 1905 Wea.

Leaving New York at 8.45 a.m.
we return to Burlington by
6.35 P.M.

Ther. THURSDAY, MARCH 30, 1905 Wea.

We make a beginning at
getting ready for our distribution
as well as at mounting plants
for the Mexican herbarium.

Ther. WEDNESDAY 29 Wea.

We make calls of business
and friendship; find ourselves
too tired to work.

Ther. FRIDAY 31 Wea.

We keep at our tasks.

Ther. SATURDAY, APRIL 1, 1905 Wea.

Sitts.

Ther. MONDAY, APRIL 3, 1905 Wea.

Sitts.

Ther. SUNDAY 2 Wea.

Sitts.

Ther. TUESDAY 4 Wea.

Hilmon and I select
from our Pl. Mex., 1904,
a set for mounting into the
Tring Herbarium and at
the same time lay out a
set for the Tacabaya Mus-
eum -

Ther. WEDNESDAY, APRIL 5, 1905 Wea.

We finish the task
begun yesterday.

Ther. FRIDAY, APRIL 7, 1905 Wea.

take out all which are
desirable to this herbari-
um and are worthy a
place in it and destroy
such as are not.

Ther. THURSDAY 6 Wea.

I select specimens
for mounting from the
last remaining bundles of
the Herbarium of G. Gay
of Paris bought in 1875 by
Dr. Hooker. After the
desiderata of the New Her-
barium were taken out,
it was sent to Dr. Gray
who took out such specimens
as were useful to his her-
barium and then passed
on to me a large box
full. I have before mounted
into my herbarium the best
of these plants and now I

Ther. SATURDAY 8 Wea.

Silto.

Ther. SUNDAY, APRIL 9, 1905 Wea.

Sitts -

Ther. TUESDAY, APRIL 11, 1905 Wea.

I continue selecting tolerably good specimens for the herbarium from lots received long ago lay them on sheets for Dr. Alfred's mounting and strap mounted specimens till 10.00 P.M.

Ther. MONDAY 10 Wea.

By the close of the day I have finished assorting the plants from the Gay herbarium ^{specimens}

In the evening I select for mounting ^{from} a lot of plants received many years ago from Dr. Engler of Berlin probably through Frank Townsend - till past 10.00 P.M.

Ther. WEDNESDAY 12 Wea.

I put into cases three bunches of plants from the Gay herbarium and receive several calls -

Ther. THURSDAY, APRIL 13, 1905 Wea.

I select and pack a set of the orchids of my collection of 1904 to send to Oakes Ames along with my Habenaria specimens, which he desires for study.

Then I select and label some Vermont plants gathered in 1903 -

Ther. FRIDAY 14 Wea.

I select and label a lot of Vermont plants collected in 1902 -

and then begin selecting whatever desirable plants are to be found in the set of Good plants.

Ther. SATURDAY, APRIL 15, 1905 Wea.

I finish the last of the Good plants -
Go down town on business and clip and distribute into cases a lot of German plants -

Ther. SUNDAY 16 Wea.

I strap and put into cases two bunches of specimens and in the afternoon, though there are snow squalls in various quarters, I go with my assistants for a stroll through the Ethan Allen woods. We find Hepatica triloba and Epipactis coming into flower -

Ther. MONDAY, APRIL 17, 1905 Wea.

I select specimens for mounting from collection made by S. M. Tracy and J. W. Small.

Ther. WEDNESDAY, APRIL 19, 1905 Wea.

I begin assorting specimens of a collection of plants made in Colorado by Prof. Randall and named at the New York Botanical Garden and from there sent to me.

Ther. TUESDAY 18 Wea.

I assort a lot of foreign plants sent me a few years ago by Mr. Patterson by him largely derived from Mr. Rebb. The smaller part are good duplicates, the worthless specimens I burn.

Today comes from Cornell University a set (number 6) of Columbian plants made 1898-1901 by Arthur H. Smith

Ther. THURSDAY 20 Wea.

I finish selecting specimens from the Colorado plants.

Ther. FRIDAY, APRIL 21, 1905 Wea.

I begin preparing for mounting the Columbian collection of Mr. Herbert A. Smith -

Ther. SUNDAY, APRIL 23, 1905 Wea.

Until dinner I strap mounted plants, while Mr. Nye puts them into cases - After dinner with him and Mr. Rank I go out to the woods beyond the High Bridge -

Ther. SATURDAY 22 Wea.

We keep at work on the Columbian collection - Filermon and I assorting the specimens and placing the labels as far as they are now supplied and Mr. Alfred poisoning them -

Collection of 1898 - 1910

Ther. MONDAY 24 Wea.

We return to work on the Columbian collection -

Ther. TUESDAY, APRIL 25, 1905 Wea.

A new supply of mounting paper having come in last night, we go at mounting plants and putting them into cases.

Ther. THURSDAY, APRIL 27, 1905 Wea.

I lay out South American plants for my assistants to mount and then finish off and encase a lot of Colorado plants.

Ther. WEDNESDAY 26 Wea.

We work at mounting a lot of plants collected in South Florida by A. A. Eaton and given by Boris Ames.

Ther. FRIDAY 28 Wea.

I lay out Columbian plants again, then finish off and encase North American plants.

Ther. SATURDAY, APRIL 29, 1905 Wea.

I finish mounting
many specimens and put
them into cases -

Ther. MONDAY, MAY 1, 1905 Wea.

I make a beginning at
arranging my list, but
have to leave it to lay
out plants for my assistant
to mount and run
around for supplies -

Ther. SUNDAY 30 Wea.

I finish off and encase
many plants.

Ther. TUESDAY 2 Wea.

Until dinner time between
1.00 and 2.00 P. M. I am occupied
in arranging the names and
numbers of my Pl. Mex., 1903
+ 1904 for my list.

In the afternoon in company
of Mr. Moore I witness a
game of base ball between
the teams of the University of
Vermont and the Holy Cross
College.

I lay out Columbian
plants for mounting -

I lay out Columbian
plants for mounting -

I talk for two hours of the
forenoon to Mrs. Wood's class on
grasses.

Then take out tickets
for the six sets of Pl. Mex.,
1904 selected previously for
Harvard National, Payson
and the three Mexican
herbaria.

Go down town with Will
Nye to buy a camera.

Finally in the evening
place tickets with the specimens
of Pl. Mex., 1904 mounted for
Herb. Payson

I finish laying out
Columbian plants -

Then strap my Pl. Mex.
1904, and put them into
cases -

Ther. SUNDAY, MAY 7, 1905 Wea.

I write out the copy for my list.

Ther. TUESDAY, MAY 9, 1905 Wea.

I distribute plants into cases, and lay out Indian plants to be mounted.

Ther. MONDAY 8 Wea.

I finish printer's copy for my list of Pl. Mex., 1903 and 1904 and send it to Mr. Patterson.

Select specimens for mounting into Hb. Griseb. from my collection of 1903, a task put over last year, when we were getting into the field early, and until now look right off.

Begin laying on sheets Indian plants sent from New,

And then return to finishing and enclosing Columbian plants.

Ther. WEDNESDAY 10 Wea.

Fitto.

Ther. THURSDAY, MAY 11, 1905 Wea.

Sitto.

Ther. SATURDAY, MAY 13, 1905 Wea.

Sitto.

Ther. FRIDAY 12 // Wea.

Sitto.

Ther. SUNDAY 14 Wea.

Sitto.

Ther. MONDAY, MAY 15, 1905 Wea.

I prepare Indian plants
for mounting
and visit Middlebury.
11.00 A.M. - 4.25 P.M.
to advise Mrs. Charles W.
Bainard about her daughter
going to Mexico.

Ther. WEDNESDAY, MAY 17, 1905 Wea.

This forenoon I finish
strapping and getting into cases
the last of the Columbian
plants that are as yet named.
By the evening after writing
a few letters, I return to
preparing Indian specimens
for mounting.

Ther. TUESDAY 16 Wea.

I prepare some Indian
plants and also strap and
encase some Columbian
plants.

Ther. THURSDAY 18 Wea.

And continue at this
task today.

Ther. FRIDAY, MAY 19, 1905 Wea.

and today.

Ther. SUNDAY, MAY 21, 1905 Wea.

I make a little progress putting Indian specimens into cases.

Spent several hours with Prof. Jones discussing many subjects.

Later Fillemon and I call on O. W. Barrett and wife in Coon's Street.

Ther. SATURDAY 20 Wea.

I go botanizing to Shelburn with about ten of our students, excellent, interested and earnest young people of both sexes.

Ther. MONDAY 22 Wea.

Lewis Sutton of Brandon having sent in for more positive identification a specimen of *Petasites palmata*, Gray, found in a swamp just north of that village, I go to Brandon by morning train, find Mr. Sutton a student in the High School and by him am shown the station of the rare plant. We find about eighty specimens in a few hours, and I bring back Mr. Sutton also, that he may advise with our professors about entering the University this fall.

Ther. TUESDAY, MAY 23, 1905 Wea.

This day is consumed
in receiving calls and
attending to many small
matters.

Ther. THURSDAY, MAY 25, 1905 Wea.

And today keep at this
task.

Ther. WEDNESDAY 24 Wea.

Today I return to my
task of finishing the
mounting of the Indian
plants and of putting
them into the cases.

Ther. FRIDAY 26 Wea.

Sits.

Ther. SATURDAY, MAY 27, 1905 Wea.

Sitto.

But in the afternoon I go with
Elemon and W. F. Nye, I
afoot and they on bicycles,
to explore the Hybee swamps
about three miles east of
the University.

Ther. SUNDAY 28 Wea.

I work assiduously at
my task again.

Ther. MONDAY, MAY 29, 1905 Wea.

Sitto.

Ther. TUESDAY 30 Wea.

Sitto.

Ther. WEDNESDAY, MAY 31, 1905 Wen.

By midday I have finished putting into boxes the set of Hooker and Thomson's Cuban plants, remounted.

Then later I turn to finishing off the mounting of sets of Thellus, 1904, for Mexican Herbaria.

Ther. THURSDAY, JUNE 1 Wen.

We finish preparing the specimens for taking back to the Mexican herbaria.

And I begin trapping the mounted Columbian plants, which are not yet named.

Ther. FRIDAY, JUNE 2, 1905 Wen.

I keep at this task.

Ther. SATURDAY 3 Wen.

By 11.00 A.M. I have finished mounting Smith's Columbian plants that are not yet labelled, and have put them on a shelf in the store room to wait the coming of tickets.

Then, after going down town I begin sorting out and putting my specimens of my miscellaneous plants of 1904 to send to Harvard and the National Museum for names.

Ther.

SUNDAY, JUNE 4, 1905

Wea.

Keep at this task.

Ther.

TUESDAY, JUNE 6, 1905

Wea.

Dr. Rose having offered
from the National Museum
an exchange of plants, we
make up today two mail
parcels, chiefly of European
plants and send as to him.

Ther.

MONDAY 5

Wea.

We finish our task by
Saturday -

Ther.

WEDNESDAY 7

Wea.

Today we begin making
distributions by laying out
two thousand and more
specimens of Mississ of
1904 -

Ther. THURSDAY, JUNE 8, 1905 Wed.

We work as we did yesterday, and tie up twenty bundles of 156 specimens each.

Ther. SATURDAY, JUNE 10, 1905 Wed.

We finish and tie up our twenty sets of 1904, and send one of them by mail to the U.S. National Museum.

At the close of day we begin making up eighteen sets with specimens collected in Decors in 1903 - "reissus" of 1903.

Ther. FRIDAY 9 Wed.

We keep at laying out specimens for twenty sets.

Ther. SUNDAY 11 Wed.

Until dinner time at 2:00 P.M. I am occupied putting up a package of 100 species of Mexican ferns to send to J. M. Andrews, Boulder, Colorado.

Later we turn again to our work on Decors of 1903 plants.

Ther. MONDAY, JUNE 12, 1905 Wea.

We continue laying out plants, advancing from ferns up to Verbinaceae.

Ther. WEDNESDAY, JUNE 14, 1905 Wea.

We keep at our distribution, tying up bundles of 196 (or less) specimens and by midday and laying out 34 specimens toward other bundles after much interruption from callers.

Ther. TUESDAY 13 Wea.

It takes all the forenoon to provide the tickets required by the Harvard set of Pl. Mex, 1904.

In the early afternoon my lists of Pl. Mex, 1903 and 1904, arrive, and the rest of the day is consumed in sending them to customers.

Ther. THURSDAY 15 Wea.

We lay out plants. Then I ride to Amesbury or stop and walk on for an hour and a quarter to visit my brother and friends.

Ther. FRIDAY, JUNE 16, 1905 Wea.

I rise at 4.00 A.M.
and after seeing my friends
walk back to the Birmingham
stop and get back to
the University by 9.20 A.M.

Ther. SUNDAY, JUNE 18, 1905 Wea.

Mr. Nye and his father
take us by row boat over
Crystal Lake to visit cliffs above
its eastern shore, a downpour of
rain overtaking us before we
succeed in gaining the shelter
of a back-house on our way.

The woods are wet with
rain and the ledges run-
ning with streams to prevent
my exploring far.

Ther. SATURDAY 17 Wea.

We make a little advance
on our distribution in the
morning, and then walk
down town in a pouring shower
to take train at 11.30 A.M.
with William F. Nye to accom-
pany him on a visit to his
home in Barton, where
after four changes of cars,
Essex Junction, Montpelier Junction,
Montpelier and Wells River (at
which latter place we wait an
hour and a quarter) and arrive
in Barton before night-fall.

Ther. MONDAY 19 Wea.

We leave Barton at
1.20 P.M. and arrive back
in our quarters about 8.00 P.M.

Ther. TUESDAY, JUNE 20, 1905 Wea.

We resume work on our distribution.

Ther. THURSDAY, JUNE 22, 1905 Wea.

We finish laying out pines, ten species, and tie up the fifty fascicles which they form.

Then we arrange according to list our plants of sets of 1903 and 1904 and the labels for them and begin another series of fascicles by laying out eleven pines.

Ther. WEDNESDAY 21 Wea.

We finish the eighteen sets of reviewed plants of 1903, and then begin putting up fifty sets of Pl. Mex., 1903 and 1904 by laying out three pines.

Ther. FRIDAY 23 Wea.

Working without interruption throughout the whole day, we lay out 63 plants.

The weather is comfortably cool today.

Ther. SATURDAY, JUNE 24, 1905 Wea.

Though we have to go down
town twice, we lay out
50 plants = 2500 specimens.
Weather warmer.

Ther. MONDAY, JUNE 26, 1905 Wea.

Today callers take much
of our time, but we lay out
46 plants.

Ther. SUNDAY 25 Wea.

Entertain three different
companies of visitors to the
herbarium, get we lay out
17 plants to finish our
second series of fascicles
then tie these up and
begin the last series with
18 plants.

Ther. TUESDAY 27 Wea.

We lay out 25 plants and
received callers before dinner.
Then attend a circus 1.30 -
4.45 P.M. and afterwards
lay out 13 more plants.

Ther. WEDNESDAY, JUNE 28, 1905. Wea.

Commencement day in the University of Vermont. In spite of some interruptions from callers we keep at our task and lay out forty species thereby completing our set.

Ther. THURSDAY 29 Wea.

We tie up the fascicles of plants completed yesterday and do various jobs and make calls.

Ther. FRIDAY, JUNE 30, 1905 Wea.

We dispatch parcels of plants by mail to California and Missouri, receive callers, and do various tasks.

Ther. SATURDAY, JULY 1 Wea.

We put up selections of plants for several botanists and do various jobs.

Ther.

SUNDAY, JULY 2, 1905

Wea.

I attend to various jobs and
begin annotating Hensley.

Ther.

TUESDAY, JULY 4, 1905

Wea.

Annotating Hensley.

Ther.

MONDAY 3

Wea.

We go down town to make
purchases in the forenoon.
The remainder of the time
I work at annotating
Hensley.

Ther.

WEDNESDAY 5

Wea.

Still annotating Hensley.

W. F. Nye comes on in the
evening.

Ther. THURSDAY, JULY 6, 1905 Wea.

and still doing it, when
not entertaining callers.

Ther. SATURDAY, JULY 8, 1905 Wea.

Little
will box plants.

Ther. FRIDAY 7 Wea.

Little.

Ther. SUNDAY 9 Wea.

I finish annotating *Humbly*
by St. Ross's Contributions from
the National Herbarium.

Ther. MONDAY, JULY 10, 1905 Wea.

I mark and ship by express to American botanist mine boxes of *Plantae Mexicanae*, 1903-1904, and write bills.

Then sleep for an hour and a half, and during the remainder of the day mark boxes to be sent to Europe and write.

Ther. WEDNESDAY, JULY 12, 1905 Wea.

We finish our five sets before noon.

I sleep for an hour.

In the afternoon we put together a collection of 1500 specimens for the Imperial University of Japan, make a box for them and pack and mark it.

Ther. TUESDAY 11 Wea.

Pack and mark boxes to go to Europe during the forenoon; and in the afternoon work at making up five sets, nearly complete of Pl. Mex., 1901 and 1902.

Ther. THURSDAY 13 Wea.

I toil through a hot day hunting up desiderata of C. Belthart and R. Schindler.

Ther.

FRIDAY, JULY 14, 1905

Wea.

I get a box down town and we fit it to the plants to be sent to Oswald Weigel, Leipzig, then ship to the care of Austin Ball, Jr. & Co., New York all the twelve boxes to be forwarded to Europe and beyond.

In the late afternoon I begin putting together plants for Cornell University.

Ther.

SATURDAY 15

Wea.

We finish the Cornell collection, box and ship to, and write to Prof. Rowlee.

Ther.

SUNDAY, JULY 16, 1905

Wea.

I write thirteen letters to subscribers to sets of *Planta Mexicana* and to those with whom I exchange plants.

Ther.

MONDAY 17

Wea.

I finish off some plants lately mounted by Filimon and encase them.

I then finish recording in Hensley the plants of my list of 1903 and 1904.

Ther. TUESDAY, JULY 18, 1905 Wea.

I finish annotating *Hensley* completely in the morning.

Travis and Senwick come early and we four spend the day attending a circus.

Ther. THURSDAY, JULY 20, 1905 Wea.

We go to North Ferrisburgh by train, visit friends in that town and walk through Houlston to my brother's in Charlotte.

Ther. WEDNESDAY 19 Wea.

I do jobs, rest and make some preparations for our journey to Mexico.

Ther. FRIDAY 21 Wea.

We walk from my brother's to Charlotte station, calling on friends along the way, and return by train to Burlington.

Ther. SATURDAY, JULY 22, 1905 Wea.

We visit Fred Horsford during the forenoon, going by train and get back early in the afternoon. Drink Lindley Macomber with Prof. Stewart and help entertain him. Then go down town on business and do small jobs.

Ther. SUNDAY 23 Wea.

We make preparations for our journey packing trunks, etc., and I take a long nap in the forenoon.

We visit in the afternoon Cyrus Lewis, Myron Williams and Warner Morse.

Ther. MONDAY, JULY 24, 1905 Wea.

The day begins with rain and a shower comes over just after we have hurried our three trunks to the depot.

While Hileman waits at the depot, I return to the Science Hall to put things in order and have a last interview with Prof. Jones and a few students here.

Then at 6.45 P.M. we leave Burlington by the Rutland railroad with tickets for El Paso, Texas, by Canadian Pacific, Wabash and Santa Fe roads.

Ther. TUESDAY 25 Wea.

The morning is well advanced when we pass Toronto, in Detroit an hour or more is lost waiting for the delayed train from Buffalo, so we only reach Chicago at 10.30 P.M. Half an hour after the Santa Fe train has gone out.

We take a room in Hotel Dearborn.

As we sit out to gather a harvest of Mexican plants the midsummer blooms are at their fullest, even the earlier golden rods on wayside banks are growing yellow.

Ther. WEDNESDAY, JULY 26, 1905 Wea.

We visit Jackson Park and the Field Columbian Museum and spend several hours pleasantly and profitably with Dr. Greenman, make some purchases in the city, wait for the train through the evening and at 10.00 P.M. go forward by the Santa Fe Route.

We are favored by cool winds.

Ther. THURSDAY 27 Wea.

Day dawns when we are in the vicinity of St. Mary's. In Kansas City we wait for four hours and pass Florence just before night falls.

We have today experienced discomfort from heat.

Ther. FRIDAY, JULY 28, 1905 Wea.

When day comes in, our train is near the limits of Kansas and Colorado. It is a joy to be again beyond the heat and humidity of the eastern states - to be on the central plateau under cloudless skies in dry cooling breezes.

Reaching Ladd we are informed of a washout ahead and return back towards Lamar.

Showers pass in the evening, while we lie on a siding at Lamar. The washout is at the crossing of Las Animas River.

Ther. SATURDAY 29 Wea.

We move forward from Lamar at 10.00 A.M. (now four trains) wait a long while at Hilton siding for four east-bound trains to pass, cross the repaired bridge of The Las Animas (or Picket wire, or Purgatory) at 2.00 P.M. and reach La Junta at 3.00 P.M.

Leave Trinidad just before dark.

Ther. SUNDAY, JULY 30, 1905 Wea.

We reach Albuquerque at 6.00 A.M. and go on at 8.00 A.M. reaching El Paso at 6.00 P.M.

Ther. MONDAY 31 Wea.

We take the Mex. Cent. train at 10.35 A.M., pass customs inspection in C. Juarez and go on from there at 11.35 A.M. reaching Chihuahua at nightfall.

The plains and hills of Chihuahua are covered with verdure but not many plants show blooms as yet, which indicates that the rains have but lately begun, a month ago we are told.

Ther. TUESDAY, AUG. 1, 1905 Wea.

The sun rises a little while before six o'clock and sees our train nearing Arenal.

Silmon parts from me at Torreon to take the train for Monterey and visit his home.

Our train joins Zacatecas by nightfall.

The vegetation seen today is no further advanced than that of Chihuahua. Corn in the fields about Zacatecas is scarcely more than a foot high.

Ther. WEDNESDAY Wea.

Day breaks as our train leaves Celaya and it arrives in Mexico City at 11.30 A.M.

I settle in my old room (no. 22) in Hotel Reina Vista, which I find as we left it last November.

Plants as seen today are showing but little bloom. Only in the Valley of Mexico is corn full grown.

Only light showers are seen in the distance today. I deliver plants to Institute.

Ther. THURSDAY, AUG. 3, 1905 Wea.

Except that I visit Prof. Alcover and Urbina in the Institute for an hour at midday, I devote the day to cleaning my room and its furniture - a task indeed!

Ther. SATURDAY, AUG. 5, 1905 Wea.

At 5:30 A.M. I get out and begin collecting, working down into the barranca as far as usual.

I find less blooms this year than we found last year. About 2:00 P.M. clouds rolling up through the barranca begin sprinkling and I hurry back to shelter. I get a number of plants in scums and later near Honey Station collect for *Lepidium* ¹⁰⁰²⁸ forty specimens for forty sets.

Ther. FRIDAY 4 Wea.

In the forenoon I deliver plants to Prof. Ferrer-Perez and Rio de la Loza and visit Sr. Altamirano and other friends in the Institute.

At 4:25 P.M. I take train for a trip to Honey, where I arrive at 9:20 P.M., and find there has been little or no rain there for about ten days.

Ther. SUNDAY 6 Wea.

Our train leaves at 4:30 A.M. to return to Mexico by 9:35 A.M.

Here I take a bath at once then get plants into driers, dry all my driers a light shower passing in the mean time and a light thunder shower afterwards, do my washing and other chores, then write letters to Kate F. Hewitt and W. J. Morse.

Ther. MONDAY, AUG. 7, 1905 Wea.

I dry plants,
clean the house-top,
mynpack and deliver plants
to the Museum,
and visit Dr. Rose and
his assistants.

Light showers poss in view.

Ther. WEDNESDAY, AUG. 9, 1905 Wea.

I see Dr. Rose and assistants
off for Iguaza at 7.30 A.M.
then leave by Paclmer train
at 7.55 A.M. for Lectoria
where I collect till 11 A.M.
then return by train from
El Paso. I secure nearly
an hundred specimens -
100^{or 110} *Anthurium*
for sets and two or three
scores.

Ther. TUESDAY 8 Wea.

I attend to drying plants,
visit the herbarium of
the Institute to study
several plants, visit Dr.
Rose and his assistants
in Santa Cruz, Aug. 7, take
a long nap, and finally
accompany Fortino to
his home in Santa Julia
to learn its location.

Ther. THURSDAY 10 Wea.

After attending to the
drying of my plants, I devote
the time to annotating
Hemslby by the local con-
tributions of Drs. Goun-
man and Robinson.

A day of unsatisfactory results.

at 7.30 AM. I hurry aboard the Cuernavaca train bound for Voro station on the Serrania de Ajusco on a search for *Perognathus*, *Stelasma*, *Graculus* found there several years ago.

Down our engine at out of order, and in consequence we we arrive at Voro an hour and a half late. I find the vegetation grazed down by heads. Within ten hours showers drive me to shelter where I wait till near 5.00 PM for the belated returning train.

Yesterday I was half sick and began taking medicine which I continue with resting today.

I give attention to the plants which I am drying, and do some chores.

Dr. Albert Vogel from St. Petersburg pays me an interesting visit in the forenoon.

I go out to Ithal park late in the afternoon, but do not see my former assistant Tranquilino, because he has moved into this city.

Showers fall in various quarters.

I have a pack of plants to change, do some jobs, and write to

Dr. J. M. Greenman and C. C. Hammond.

I get at work again. Leaving the Cuernavaca train at Cima Station, I collect for five hours and a half on the lava field north of the station and just west of the railroad, taking for sets *Senecio bracteatus*, *Heath*, and for scores more choice species.

Clouds cover the Serrania and showers fall.

Ther. TUESDAY, AUG. 15, 1905 Wea.

I work upon my plants gathered yesterday until 3.00 P.M. and then go into Santa Street and visit Dr. Rosen.

A good degree of sunshine favors drying plants.

Ther. WEDNESDAY 16 Wea.

I dry plants and pack them away and then annotate Hemsley by Dr. Rosen's monograph of *Crossulacae* in North American Flora of Britton.

Xilimon arizonicus about 2.00 P.M. on the train due to arrive here at 11.30 A.M.

Ther. THURSDAY, AUG. 17, 1905 Wea.

We take Tampico train at 8.15 A.M. to accompany Dr. Rose and company on a trip to San Juan del Rio, State of Chihuahua.

Arrived at our destination at 1.30 P.M. we have time after getting our dinners to cross the river over the old stone bridge and ascend the west hill to the base of the cliffs, where we gather material for sets of *Trisium Schaffneri*, Watson. The vegetation proves to be still young. A shower and a rain night.

Ther. FRIDAY 18 Wea.

We spend the forenoon on a mesa east of the city and south of the old highway, where we collect for sets. *Sponsea* (white) ¹⁰⁰²⁸
Sponsea (deep purple) ¹⁰⁰²⁹
Dalia plumosa, Watson and a few scores, etc.

In the afternoon we visit river cliffs above the city to find little to reward us, and then pass to the ledge of the west hill again for a few scores, and miscellaneous plants. No rain to disturb us.

Ther. SATURDAY, AUG. 19, 1905 Wea.

Getting out of our hotel at dawn and leaving our friends to go on a trip in saddle with Sr. Altamirano, now come on, we take train at 7.20 A. M., an hour late, and reach Mexico City at 1 1/2 M. only half an hour behind time.

The care of our plants consumes the afternoon.

Ther. SUNDAY 20 Wea.

We care for our plants and rest.

At 4.20 P.M. we leave for a trip to Honey.

Ther. MONDAY, AUG. 21, 1905 Wea.

As usual we cross the river from Honey Station in the earliest morning light and work down into the barranca. No rain comes up till about sunset, when we are nearly shelter. We collect for sets;

- ¹⁰⁰³² *Trisetum*
- ¹⁰⁰³³ *Alchemilla*
- Alnus*
- ¹⁰⁰³⁵ *Podostigma pteleoides*, Walp.
- ¹⁰⁰³⁷ *Diarrhena candelata*, Greene
- ¹⁰⁰³⁸ *Pringlea heterophylla*, (10036)
- ¹⁰⁰³⁹ *Helianthus intermedia*, Chodch
- ¹⁰⁰⁴⁰ *Alchemilla*

Ther. TUESDAY 22 Wea.

We are back in our room putting plants into driers by 10.00 A.M.

Warm sunshine favors our drying; but a thunder shower passes late in the afternoon.

Ther. WEDNESDAY, AUG. 23, 1905 Wea.

We care for our plants. I visit Colonia Station and the Instituto, to get passes over the National and Interoceanic, and call at the Museum in a vain attempt to get pay for plants.

In the afternoon I enjoy a visit with Mr. Parsons in the American Consulate.

I write to Miss Brainerd.

Ther. THURSDAY 24 Wea.

We board the Tampico train at 8.15 a.m. and alight from it at Leta Station shortly before noon, collect thereabouts, and between that station and Marquis Station on elevated swells, until a return train comes along at 2.58 P. M.

We secure for sets
Sporaea
Cacalia

and a few scores.

Light showers pass in the distance.

Ther. FRIDAY, AUG. 25, 1905 Wea.

To put into folios for drying the plants gathered yesterday in bulk requires all the forenoon.

In the afternoon I visit the Museum to determine several of these, and there finding a *Carex* apparently distinct from any species I have previously collected, I decide to return for abundant material, as I secured only twenty seven specimens of it.

Ther. SATURDAY 26 Wea.

Repeating the trip of two days ago, and ascending higher above Leta Station into a forest of oaks, *Quercus grisea*, *Leban*, we collect for sets.

Carex
Alchemilla
Lyranium
Glycyrrhiza
Bellerophonifolia, Link.

and two choice plants in scores.

I am interested to see in these high meadows *Brickellia monocephala*, *Rob.* and *Valeriana macrocarpa*, *Gouman* found sparsely, at El Salto and Lechón.

Ther. SUNDAY, AUG. 27, 1905 Wed.

I give attention to plants in the morning, and in the afternoon, after taking a nap I write to

Prof. C. R. Jones,
Charles C. Hammond,
J. M. Greenman, and
C. W. Barrett.

Heavy cold rain like a northern equinoctial begins at daybreak and continues with little interruption throughout the day.

Ther. MONDAY 28 Wed.

The day begins nearly cloudless.

I spend the forenoon at the Institute helping Sr. Urbina and Prof. Alcocer determine a lot of plants collected years ago by Paul Mawry. Dr. Rose and his assistants come in just returned from a trip into the state of Chiriquí with Dr. Altamirano from which they bring large numbers of cacti. In the afternoon I call on these in their lodgings.

No rain.

Ther. TUESDAY, AUG. 29, 1905 Wed.

In the morning I visit Mrs. Ahrens in Hotel Italia and Calajón de Santa Clara. Then go home to dinner with Mr. Parsons and later spend some time in Dr. Rose's quarters.

But little rain.

Ther. WEDNESDAY 30 Wed.

We visit Cima station on the Durania de Agüero and collect sets of
Alchemilla
Alnus

10046

10047

10029

Geranium
and three or four other plants in seeds.

A light shower passes about 1, 00 P. M.; but we have an unusually fine day for this trip.

Last night a man passing over the mountains on foot and alone was robbed of money and some clothes here.

Ther. THURSDAY, AUG. 31, 1905 Wea.

In the morning we receive a visit from Dr. Wm. C. Roby. Then call at the consulate in the interest of Miss Drainard.

In the late afternoon Dilson and I attend the Renacimiento Theater.

Ther. SATURDAY, SEPT. 2, 1905 Wea.

I call at the Parsons home in the morning, next at the office of the representative of the Mex. Southern Ry. Then at the consulate and finally at the Museum.

Being half sick from a cold and rheumatic pains, I rest and play for a time, till at the end of the day I receive a call from Mr. J. C. Harry, Sanborn Station, D.C. & P. R.R., D.C. who is in the city to interest the Government in the establishing of a Tropical Botanic Garden.

Ther. FRIDAY, SEPT. 1 Wea.

We spend the day in the barranca above Santa Fe collecting six or seven good plants in scores.

Ther. SUNDAY 3 Wea.

Mr. Harry comes again to spend the forenoon with me.

In the afternoon I take a map visit Frank Lloydston to Santa Maria and in the evening attend Aldo's last performance in Orin's Theater.

Ther. MONDAY, SEPT. 4, 1905 Wea.

I spend the forenoon in the Institute by appointment with Mr. Harvey to introduce him to the botanists there and show him the herbarium.

In the afternoon I do little but rest, for I am troubled with rheumatism settled in my left ankle.

Rain comes over before 5.00.
P.M.

Ther. TUESDAY 5 Wea.

We spend three hours about the Knobs of the Sierra de Tapan then between trains, failing to find in flower the three new species we desire, but taking four good plants in season.

Rain comes late.

Ther. WEDNESDAY, SEPT. 6, 1905 Wea.

We conduct a party consisting of Mrs. Parson, and her friend Mrs. Seiger, accompanied by her son and daughter to the Llanquihue on the mountain side. We are let off the train by kind permission of Pres. Robinson at Kilometer 38 and walk back thence to Esclava Station being favored by clear weather and fresh breezes.

We collect four species in scores or larger numbers.
100162 *Pellaea cordata*, J. Smith.

Ther. THURSDAY 7 Wea.

Returning from Fagque two days ago, I noticed near Tres Marias Station the yellow flowers of a composite plant which I judged to be

¹⁰⁰⁵¹
Perognathus flexuosus, ^{Brennan}

sought for in vain in its type locality at Voro Station on August 11th. So today I return, find it to be the real thing and collect material for sets, and another plant in a score of specimens. Much no rain.

Ther. FRIDAY, SEPT. 8, 1905 Wea.

Making a second trip to San Juan del Rio, we gain the hill south-west of the city by 3.00 P.M., and there before dark collect for us three plants:

¹⁰⁰⁴⁹ Oroton
¹⁰⁰⁵⁰ *Wissadula acuminata*, Rose.
¹⁰⁰⁵¹ *Coccoloba*

We leave to return to Mexico City by train from Guadalupe at 11.00 P.M.

No rain seen.

Ther. SATURDAY 9 Wea.

We arrive on our base in the capital city about 7.40 A.M., and at 8.15 A.M. I start back on the Tampico train for Cazadero station near which in passing I had seen a *Cuphea* unknown to me.

¹⁰⁰⁵² *Cuphea*
of which I secure in bulk, to be brought home in my oil cloth and put into flasks in our room during the evening, material for det.
¹⁰⁰⁵³ *Xanthcephalum*

Rain in the afternoon.

Ther. SUNDAY, SEPT. 10, 1905 Wea.

We give attention to the drying of our plants.

In the afternoon Esce Sr. Rose and his young men to a bull-fight in the Mexico ring.

A shower turns us away before the fight is finished.

Ther. MONDAY 11 Wea.

We get off the Tampico train at Guadalupe about 10.30 A.M., collect in that vicinity for an hour or two hours then walk down to Tula for the returning Tampico train at 4.25 P.M.

¹⁰⁰⁵⁴ Our collection comprises *Salix Humboldtiana*, Willd. f. and five species in scores.

No rain comes near us.

Ther. TUESDAY, SEPT. 12, 1905 Wed.

I visit Mr. Parsons' home and the Institute in the forenoon, take a nap and pack away plants in the afternoon.

I write to
C. C. Hammond &
Kate P. Hewitt.

Ther. WEDNESDAY 13 Wed.

I spend the forenoon introducing Miss Van Wagoner at the Institute. The afternoon in our room caring for plants, etc.

Heavy rain in the evening.

Ther. THURSDAY, SEPT. 14, 1905 Wed.

I go again to the Institute in the forenoon, to recover my lens and meet there Dr. Rose and assistants and Miss Van Wagoner.

In the afternoon go with Dr. Roby to Tlalpam, where I have scores of two choice plants, before we call on the Durans.

No showers at Tlalpam, but a heavy one over Mexico City.

Ther. FRIDAY 15 Wed.

The railroad trains during this national holiday being crowded with passengers, outside people coming to visit the city and townsfolk going outside on vacation trips, we do not venture aboard them.

Dr. Rose visits me in the forenoon and takes a selection of plants for determination in Washington.

In the afternoon I go out along the Central R.R. for some two miles to study willows -
Little rain today.

Ther. SATURDAY, SEPT. 16, 1905 Wea.

Mexican Independence Day.

In the morning Dr. Rose calls on me and a little after I go with him and his son to Chapultepec to see the celebration and the government officials. On our return to the city I watch the military parade as it comes back to the city.

Late in the afternoon we visit Dr. Rose and his assistants to tell them Good Bye, as they start for Washington tonight.

Ther. SUNDAY 17 Wea.

We go by train to Tacubaya thence by tramcar to Santa Fe and from there go up into the barranca above the town where we collect for sets *Cornus tolimensis*, H.B.K. and a few other choice specimens. We get back to our hotel by 4.00 P.M. in time to get our specimens into warm driers.

Very little rain seen today and only about the higher mountains.

Ther. MONDAY, SEPT. 18, 1905 Wea.

I spend the time between the outgoing and the returning Vainpido trains, 10.15 A.M. to 4.25 P.M., on the dry calcareous cluffs near Tula seeing a lot of *Chenopodium incisum*, Torr., additional material of *Salix Humboldtiana*, Willd. to show its stipules and one or two plants in scores of specimens.

I find this region rainless of late, the soil dry and dusty and many plants wilting before their flowering.

Light showers fall in the evening about the Valley of Mexico.

Ther. TUESDAY 19 Wea.

at home resting and writing to Prof. Moore.

Ther. WEDNESDAY, SEPT. 20, 1905 Wea.

We travel (7.30 A.M. till 5.40 P.M.) to Iguala, observing the country along the way to be well watered, green and the vegetation to be fresh and thriving.

Ther. ~~FRI~~ Friday, Sept. 23, 1905 Wea.

Tuesday 26.
We set out on another trip to the State of Guerrero - to Balsas Station, where we arrive with a trunk full of driers at 8.30 P.M.

Sr. Joaquin Villalobos, a young Spaniard arrives on the same train and is put into the same room with us. He started to go to Acapulco this way, being wrongly advised -

Ther. ~~THURSDAY 21~~ Wea.

Monday 25.

Busy in our room in Hotel Buena Vista and in the Institute Herbarium working upon our collection and studying it.

Ther. ~~SATURDAY 23~~ Wea.

Wednesday 27.

We collect on both sides of the river, Sr. Villalobos keeping us company, and procure for us

¹⁰⁰⁰⁷ *Knuthia*

¹⁰⁰¹² *Banania*

¹⁰⁰⁶³ *Galphimia glauca*, Cav.

¹⁰⁰⁶⁵ *Melampodium linearilobum*, ¹⁰⁰⁷⁵

¹⁰⁰⁷⁰ *Viola*

¹⁰⁰⁷⁰ *Ageria Berlandieri*, Watson

¹⁰⁰⁷⁵ *Justicia*

Ther. SUNDAY, SEPT. 24, 1905 Wea.

A busy day in our room in Hotel Reina Victoria caring for our plants. Clouds and misty showers prevent our changing of driers till late in the afternoon.

Ther. MONDAY 25 Wea.

Thursday 21-

We return by train to Los Amates Station between 7.00 and 8.00 A.M. and walk back to Varanjo station to take the returning train at 8.05 P. M. for Iguaza.

A fruitful day as we bring in to and into driers brought with us in a trunk;

10059 *Galax spiciformis*, Rose,

10056 *Euphorbia*

10054 *Spergularia*

10055

Draciscantia saxicola, Grimmer

and several rare plants in ocno. No rain.

Ther. TUESDAY, SEPT. 26, 1905 Wea.

Friday 22-

Filimon is compelled to remain in our hotel in Iguaza to dry our plants. I return alone to Varanjo station and walk thence into the Iguaza cation to collect sets of

10053 *Acacia*

10057 *Calliandra*

10069 *Heliconia*

10077

10068

10053 *Cassia leptadenia*, Grimmer.
10048 *Russelia*

score or less numbers.

A pleasant day working in the shade of the lofty cation walls amidst breezes.

Ther. WEDNESDAY 27 Wea.

Saturday 23-

We travel back to the capital (7.05 A.M. to 8.40 P.M.) Here I find a letter from Mr. Shaw telling of his purpose to arrive in Saltillo on Oct. 3rd or 4th.

Ther. THURSDAY, SEPT. 28, 1905 Wed.

We leave Balboa at 4:15 A.M.

Tilden goes back to Mexico City with our trunk full of plants, while Dr. Villalobos and Balight from the train at Amotes station, collect through the day as we walk back through Iguala Canon to Parango station to return for the night to Iguala, securing for sets *Salpica muralis*, *Sernaldus*
Crotalaria
acalypha propyla, *brunnea*
Youngia fortia

FRIDAY 29

Wed.

We travel back to the capital 7:05 A.M. to 5:40 P.M.

As the train stops to take water near Tuxtla station I finish gathering a complement of *Mimosa*

Ther. SATURDAY, SEPT. 30, 1905 Wed.

I spend the forenoon with Mr. & Mrs. J. G. Cannon at the house of Mrs. Mary H. Field in Mexico and the afternoon with Mr. & Mrs. Parsons on their house top.

Dr. Villalobos starts at 7:40 P.M. for Moctezuma.

Ther.

SUNDAY, OCT. 1

Wed.

Jobs, resting and care of plants consume our time.

Ther. MONDAY, OCT. 2, 1905 Wea.

We make preparations
for a journey and I write to
Wm. P. Shelton,
Dr. J. M. Rose &
L. R. Jones.

At 9.00 P. M. we leave by
National train for Salt Lake.

Ther. TUESDAY 3 Wea.

Day finds us at Gonzales
junction.

Hereabouts we see a good
vegetation that is now
mature; but as we travel
northward, the country
gets drier and drier. About
San Luis Potosi the corn
crop is nearly a failure -
a light rain begins before
noon.

But we find Coahuila
rainless.

Ther. WEDNESDAY, OCT. 4, 1905 Wea.

Mr. Shaw arrives 7.00 A. M.

We go out to the hills
and gather half a dozen
species in Texas.

A shower falls on the
eastern mountains.

Ther. THURSDAY 5 Wea.

A day of sunshine and cool breeze.
Setting out about 6.30 A. M.,
Mr. Shaw with a guide on
horseback and Filimon and I
keeping pace with them on foot,
we reach the Cañon de las Animas
or six miles south east of Salt Lake
and follow it up to the summit
where we find *Pinus greggii*, *combris*,
and *Arizonicus* (?) - A hard climb
of four hours. We get back to
Salt Lake about 7.30 P. M. bringing
Aster cornucopiae, Watson -
Crataegus Borealis, *topiaria* m. sp.
Rosa *altissima*, Rob. m. sp.
Amelanchier *saltillensis*, Rob. m. sp.
Cypripedium *saltillense*, Rob. m. sp.
Cypripedium *altissimum*.

Ther. FRIDAY, OCT. 6, 1905 Wea.

At 7.30 A.M. of a rainy morning we leave Ballito by the Chalmers Branch of the Mex. Embr. R.R. and alight from the train at General Cepeda. Early on the way we pass out of the rain into a region too arid for the full development of the corn.

The town of Gen. Cepeda is situated in a fertile valley, and other watered valleys stretch amongst the hills.

I go out to a near by hill and collect a set of *Sebastrium glabrum*, Rose.

Ther. SATURDAY 7 Wea.

About 7.00 A.M. we set out from town, Mr. Shaw and I occupying a coach and Filimon and a pair saddle horses, and arrive at the base of mountains a dozen miles to the south a little before noon. We climb one of the foothills, and collect for six hours.

Pinus ponderosa,
Lalagania megacephala, Schz. Bip.
Wickellia bitonocalia, Gray.
Villalobosia cyclosticta, Rose.
Juniperus flaccida, large trees.
Get back an hour after dark.

Ther. SUNDAY, OCT. 8, 1905 Wea.

Closely occupied getting plants into press and drying them in the bright sunshine and dry air of this region, but towards nightfall secure material to complete set of *Penstemon Bygelovii*.

Ther. MONDAY 9 Wea.

We leave the hospitable town of General Cepeda (formerly Pácos) at 10.15 A.M. by train bound for Torreon a slow train even now since the Mexican Central runs it. It stops for no apparent purpose two hours in Parras and reaches Torreon so short a time before the departure of the north-bound train, that we fail to get our trunks checked in time to go on and are compelled to wait twenty-four hours for the next train, amidst heat and mosquito.

Filemon and I, rather than worry through the day in the dusty and noisy town of Torreon, mount the south-bound train at 8.00 A. M. and ride to Jimulce (9.50 A. M.) where we collect for a day.

¹⁰⁷⁹¹ *Peckia Frimleyi*, Sernald, and several other plants in scores or larger or smaller numbers.

We return to Torreon by 9.00 P. M. and keep right on to Jimulce by 2.45 A. M.

Ther. WEDNESDAY 11 Wed.

We leave Jimulce at 6.00 A. M. and reach Parral a little before 9.00 A. M. Here we take a room in Casa Fuentes and apply ourselves diligently to the drying of our plants - the day being rather cloudy.

Mr. Shaw being somewhat indisposed and Filemon, also, being held back to finish drying our plants, I alone take train of the Parral and Durango R.R. at 6.00 A. M. and arrive at the present terminus of the road, the station of Mesa de la Sandia, at the base of the Sierra Madre range and 10 kilometers distant. A succession of thunder showers continue throughout the afternoon, but between showers I collect plants. *Syntherisma* *filamentosa*, *Phlox*.

Ther. 12154 FRIDAY 13 Wed.

The sky cleared about midnight and day dawned fair. I collect throughout the morning. Mr. Shaw and Filemon come on, but Filemon returns to town with my plants to dry them.

Plantago ¹⁰⁷⁹³ *mexicana*, Link.
¹⁰⁷⁸⁹ *Senecio* *bicolor*, Haussl.
and many others.

Mr. Shaw and I explore the Barranca of Sandia.

¹⁰⁷⁹⁰ *Asplenium* *glaberrimum*, Baker
Asplenium *palmeri*, Baker 10799
Leuca *humilis* *var. durangensis* 1086
Brioclinia *obtusifolia* 10791
Brioclinia *obtusifolia* 10792
Realia *mexicana*, Scribn. 10797

Ther. SATURDAY, OCT. 14, 1905 Wea.

Up the winding grades of the railroad and then the wagon road we mount through the bright and breezy morning to the summit mesa covered with a pine forest. Here, as in the barranca below we meet with a pine strang- to us ¹⁰¹⁴⁰ *Pinus Roseanna* Shaw.

and I get a complement of specimens of it. Also of ¹⁰⁰⁹⁷ *Eupatorium* *durangense*, Rob. ¹⁰¹⁴⁴ *var. angustius*, Rob. ¹⁰⁰⁸⁷ *Stemodia Pringlei*, Watson, *Lupinus confusus*, Rose. and several scores.

Ther. SUNDAY 15 Wea.

We spend the forenoon in the barranca below the station, and I return alone in the afternoon.

I secure sets of ¹⁰¹⁰³ *Senecio* ¹⁰¹⁰⁸ *Galium hypoleucum*, ¹⁰¹⁰⁷ *Stachys* ¹⁰¹⁴⁶ *Cleome* ¹⁰⁰⁹³ *Eupatorium acutibentatum*, Rob. ¹⁰¹⁴⁴ *var. angustius*, Rob. ¹⁰⁰⁹⁶ *Eupatorium venulosum*, Gray. ¹⁰⁰⁹⁶ *Eupatorium durangense*, Robinson *nigra*

Ther. MONDAY, OCT. 16, 1905 Wea.

Before time to take train I collect in the vicinity of the station four species in scores.

Then leave Mesa de la Sandra with as many plants as I can carry, about 11.30 A.M. and arrive in Parol at 3.40 P.M.

Ther. TUESDAY 17 Wea.

As my supply of paper gave out on the 14th, I brought in many species in bulk, and it takes me all this day to arrange them into folios, while Filimon dries them.

Mr. Shaw starts on a 5.35 P.M. for El Paso City.

Ther. WEDNESDAY, OCT. 18, 1905 Wea.

We care for our plants and in the afternoon I go out of town to the east and about a rocky hill collect seven species in scores.

Ther. THURSDAY 19 Wea.

We take train of P. & T. R.R. at 6.10 A. M. and reach Mesa de la Sandia again at 10.35 A. M.

The long afternoon we pass in the garden below the station collecting for sets
Piqueria ¹⁰⁰⁶⁷ *laxiflora*, *Rib. Watson*.
Salvia ¹⁰¹⁰⁴
Copiezia ¹⁰¹⁰³ *cornuta*, Watson and
Hyssopus ¹⁰¹⁰²

also a few other species in limited numbers.

We can see that the soil is rapidly drying and that plants are withering fast.

Ther. FRIDAY, OCT. 20, 1905 Wea.

We arise soon after 4.00 A. M. and by the light of the waning moon ascend to the mountain summit, eat our breakfast by the spring near the electric sawmill and then follow the stream down to the verge of the great Barranca of Navajo. Returning we collect sets of *Pinus* ¹⁰¹¹⁰ *gentiana* ¹⁰¹¹¹

and additional material the strange pine.

From 11.30 A. M. till 7.00 P. M. we are crawling back to Barral hindered by a delayed freight-car ahead of us.

Ther. SATURDAY 21 Wea.

Busy in Barral drying and packing plants.

In the afternoon I collect about a hill to the east of the city five species in scores.

Ther. SUNDAY, OCT. 22, 1905 Wea.

First we change drivers and pack trunks, etc.

Then I go out along the Central R. R. for four hours and collect specimens of three plants.

At 5.30 P.M. we leave Pinarol to return to Mexico. In Jimenez at 8.00 P.M. we take a room to wait for the southbound train due to arrive at 1.40 A.M.

Ther. MONDAY 23 Wea.

Called out for our train at 1.00 A.M., we soon learn at the station of its being in the ditch about sixty miles to the north.

The north bound train arrives about 3.00 A.M. and is held for the track to be cleared of the wreck. We occupy its cushioned seats till near noon, when a "club" (improvised) train is made up and started for Mexico City. During the afternoon we make up an hour or two.

Ther. TUESDAY, OCT. 24, 1905 Wea.

We see the day return when nearing Lagos and arrive in Mexico about 7.00 P.M. have made up some three hours while running from Jimenez.

We observe a great change to have taken place in the maturing and drying up of vegetation, since we went north three weeks ago. Besides certain corn fields not yet ripe there appears now but little verdure in the landscape.

Ther. WEDNESDAY 25 Wea.

Today we are very busy in our hotel and about the city caring for our collections and packing them away and making preparations for another trip.

At 9.00 P.M. we leave by train of the National of Mexico for Amazapan in Michoacan, going out by its standard gauge line.

Ther. THURSDAY, OCT. 26, 1905 Wea.

In the early morning we change at Gonzales to the narrow gauge train bound southward, and at 9.10 A.M. in Acambaro change to the Morelia branch by which we reach Uruapan at 6.30 P.M. half an hour after nightfall.

South of Morelia we find the vegetation still fresh and flowering. We put up again in the Hotel de la Union.

Ther. FRIDAY 27 Wea.

In the forenoon we then visit the hill north of town and discover *Pinus Lawsoni*, Gordon. ¹⁰¹¹⁴ a few small trees only overlooked last year. We secure a set of specimens.

Thunder showers occur in the afternoon.

Ther. SATURDAY, OCT. 28, 1905 Wea.

I go up to Tarascon by train, leaving at 7.30 A.M. and getting back at 6.30 P.M. having eight hours in the field near the station and collecting for sets. ¹⁰¹¹⁷ *Salix inchenbachtoides*, Kunth. ¹⁰¹¹⁸ *Cercaria montana* ¹⁰¹¹⁹ *aphylla* ¹⁰¹²⁰ *Rob.* var. *leptopoda* Robinson.

Thunder clouds cover the mountains and a shower falls at Tarascon about 4.00 P.M., which I wait for the returning train.

Ther. SUNDAY 29 Wea.

Mr. Shaw and I spend the day about the station of Cord.

I collect a set of ¹⁰¹¹⁶ *Euphorbia* and several other species in limited numbers.

Thunder showers pass on the mountains above us.

Mr. Shaw and I in the forenoon visit a volcano a few miles west of town and nearly a thousand feet above it, whose steep sides and base are covered with a forest of pines, four species, and the bottom of whose crater, a flat of three or four acres, is occupied by a field of corn. We walk the entire circuit of its rim nearly a mile in extent. I find a few plants

Ther. TUESDAY 31 Wea.

Yesterday on the slopes of the volcano I found
¹⁰¹¹⁴
Desmodium
Desmodium *brissongitii*, Sem. vol 43
Cassia
¹⁰¹¹⁷

but had time, keeping company with Mr. Shaw, to secure only a few specimens of each. So, today after finishing in town a set of
¹⁰¹¹⁵
Salvia Hispanica, L. v. *chionocalyx*, *formosa*
 I return for full sets of those plants.

Thunder showers come on in the late afternoon as usual.

Mr. Shaw and I spend the day about the north west edge of town and on the foot of the pine covered hills, contiguous where I collect for sets.
¹⁰¹⁰⁹
Bidens rosea, Schz. Bip.

¹⁰¹²²
Saurauya reticulata, Rose
¹⁰¹²³
 (bill shaped fls)

At 4.00 P.M. a thunder storm comes over the city, a heavy down-pour mixed with hail.

Ther. THURSDAY 2 Wea.

We take train at 7.30 A.M. to leave Orizaba and all its attractions and return to Mexico City going by way of Gonzalez, where we change to the standard gauge.

Ther. FRIDAY, NOV. 3, 1905 Wea.

We arrive in Mexico City at 6.30 A.M. and are closely engaged with care of our plants, housekeeping and errands about them.

I call twice at the American Consulate, and at the Institute and in the evening visit Mr. Lawson to see Miss Brainerd.

Ther. SATURDAY 4 Wea.

We care for our plants and make preparations for another trip.

At 9.00 A.M. leave the city by the National of Mexico for Saltillo, Mr. Shaw accompanying us.

Ther. SUNDAY, NOV. 5, 1905 Wea.

Morning sees us at Gonzalez, we pass San Luis Potosi about noon and arrive in Saltillo at 8.45 P.M., where we take the room (No. 1) occupied by us three a month ago.

Shortly after we reach our room and before our trunks can be brought up, a furious thunder-storm sweeps over Saltillo, the first rain in a long while. A shower had passed across our route in the afternoon to lay the dust of the plains.

Ther. MONDAY 6 Wea.

In the early we set out by hired coach for the mountain cañon visited before, but soon have to wait an hour, while a balky horse is changed. As the coach can be driven no farther than the mouth of the cañon, we proceed on foot, following up a trail for an hour and a half to the first scattered grove of pines on the steep slope on our right. ¹⁰¹¹² There we collect a set of ¹⁰¹²⁰ ~~Pinus~~ ^{Pinus} Greggii, Engelmann and ¹⁰¹²⁰ ~~Pinus~~ ^{Pinus} ~~durangensis~~ ^{durangensis}. We return in fog and drizzle and heavy rain falls later.

Ther. TUESDAY, NOV. 7, 1905 Wea.

At 3.20 A.M. we bid good bye to Mr. Shaw, who will continue on his way home to Boston, and ourselves take train to return to Mexico City.

From the clouds and web of the Saltillo region we get back by mid-day into the heat and dust of San Luis Potosí. No evidences of killing frosts yet seen in these northern States, but vegetation is matured and shows brown and dry.

Ther. WEDNESDAY 8 Wea.

About three o'clock this morning, as our train is passing under a great ledge beyond the station of Escandon our engine crashes into a mass of broken rock recently fallen on the track and is derailed and derailed. The north-bound train also arrives in the night near the scene of trouble, and when day comes the passengers of each train with baggage, etc., are transferred to the other train but it is past 11.00 A.M. when we start on and past 2.30 P.M. when we reach the capital.

Ther. THURSDAY, NOV. 9, 1905 Wea.

We care for our plants today. And in the evening I write to Kate P. Hewitt, Prof. W. J. Morse and Mrs. C. Cusick.

Ther. FRIDAY 10 Wea.

Busy about our room and in making preparations for another trip. I write to Alfred Weise and Sara W. Ems.

At 9.00 P.M. we leave on National train for Uruapan.

Ther. SATURDAY, NOV. 11, 1905 Wed.

At daylight we change cars at Gonzales Station and at 9.15 A.M. change again at Acambars, and arrive at Urupaan Station at 6.30 P.M.

We are told of a tempest of rain that fell here last night, but tonight no rain comes tonight.

Ther. SUNDAY 12 Wed.

Another rainless day, sunny and serene. We walk to the Falls of Pararacua about which we collect.

¹⁰⁰⁹⁸
Eupatorium Donnell-Smithii, Coult.
¹⁰⁰⁹⁹
Eupatorium Muellieri, Sch. Bip.
¹⁰¹⁰¹
Martinsia composita, Coult.
and a few other plants in limited numbers.

Ther. MONDAY, NOV. 13, 1905 Wed.

I go back four miles or more along the road traveled yesterday and make sets of

¹⁰¹²⁵
Cacalia

An infuriated man sets upon me with a false accusation and strikes me twice with all his might with the flat of a sheath sword. Light showers

Ther. TUESDAY 14 Wed.

With two Indians for guides and helpers I range till 2.00 P.M. over a wide scope of malpais, lava fields of varying character, hill and vale, pine forest, oak forest and bare of forest. We tread where trails are plain though rocky where trails are faint and fields of broken rock about of no trails. I secure for sets

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Ther. WEDNESDAY, NOV. 15, 1905 @ Wea.

I enjoy another Indian familiar with the forest and follow a cart road through the low fields nearly to the foot of the volcano called Cerro de Javelin collecting for sets.

¹⁰¹³⁵
Orchid

¹⁰¹³⁶
Orchid

¹⁰¹³⁷
Orchid

¹⁰¹²⁹
Belvisia

The orchids are found on mossy oak or Clithra trees, sometimes on rocks.

Another Indian brings us ¹⁰¹³⁸
Oncidium tigrinum,

Ther.

THURSDAY 16

Wea.

We leave Xanapan at 7, 30 A.M. to return to Mexico City.

Ther. FRIDAY, NOV. 17, 1905 Wea.

We arrive in Mexico City at 6.30 A.M. and devote the day to the care of our plants. I scald a part of the orchids.

Ther.

SATURDAY 18

Wea.

I finish preparing orchid specimens and scalding them.

Write to Joaquin Villalobos. A shower falls in the evening.

Ther. SUNDAY, NOV. 19, 1905 Wea.

A Sunday spent at home in our hotel, mostly resting and reading.

Rain begins about the middle of the afternoon and continues into the night.

Ther. TUESDAY, NOV. 21, 1905 Wea.

Sunlight finds our train at Adjunta Maria Station and the sun sets soon after it passes Comachio.

The herbaceous plants in view today are mostly dead; but no evidences of frost are seen.

Ther. MONDAY 20 Wea.

We carry for plants.

In the forenoon I visit the Institute towards evening call on the Parsons; and at 7:40 P. M. we leave for El Paso to ship home two trunks' contents of plants. No rain.

Ther. WEDNESDAY 22 Wea.

Our train passes Ortiz about sunrise and we are nearing El Guarez at sunset.

Still as we go northward today no indications of frost are seen.

In El Paso over night a high, cold wind rages and some rain falls.

Ther. THURSDAY, NOV. 23, 1905 Wea.

To find a suitable box to contain my collection of plants, I am compelled to make inquiries in a dozen stores; and when I have found one, it has to be cut down to fit. So with this work and other jobs the day is consumed.

A pleasant day comfortably cool.

Ther. SATURDAY, NOV. 25, 1905 Wea.

I awake to behold with joy the saffron-hued sky of dawning day as our train is nearing Barro Colorado.

Night falls when we are ascending the heights of Tacarcosa.

Ther. FRIDAY 24 Wea.

We leave El Paso to return to Mexico City at 10.35 A.M., but it is noon when we get started on from Ciudad Guarez, so much time is consumed in baggage inspection by the U.S. Customs and Border officials. The day is pleasant but cool from a north wind.

Ther. SUNDAY 26 Wea.

I awake to find our train passing the gardens of Hercules as the morning star hangs in the pale eastern sky. We reach Mexico at 11.30 A.M.

Warm sunshine favors Telenon changing drier, in three parts of orchids brought from Orizaba.

Ther. MONDAY, NOV. 27, 1905 Wea.

We do jobs about our room and prepare to go out on a trip.

I write to

Dr. J. N. Rose,
Frank & Estey.

at 6.00 P. M. we leave by train for Guadalupe.

Ther. WEDNESDAY, NOV. 29, 1905 Wen.

We visit Rio Blanco and its barranca.

On gravelly bluffs about the springs above the factory we collect with great satisfaction a set of

¹⁹⁰³
Erythraea Palmieri, Hemsl.

but search in vain in the barranca. (in the station where I gathered in 1903 twenty nine specimens) to discover again a trace of *Schoenocaulon phaeospermum*, Griseb. We get a full complement of this plant was the object of this trip to Guadalupe.

Ther. TUESDAY 28 Wea.

We arrive in Guadalupe at 12.20 P. M.

The country seen this morning is exceedingly dry. Very few plants except winter-bloomers remain in flower.

In Guadalupe I pass the afternoon visiting Mr. Wright and his family.

Ther. THURSDAY 30 Wea.

Last evening I called again on the Wrights and this morning I call over noon on these excellent friends and receive the itinerary of Mr. Wright's recent trip through Sonora.

We take train at 10.15 A. M. to return to Mexico City, the vegetation in this region being as I suspected, so far passed as to offer little inducement for staying here to collect plants. I have chicken pie for my Thanksgiving dinner, a small loaf of Mexican bread black and sour split open at one end and two pieces of tough fowl placed in there.

Ther.

FRIDAY, DEC. 1, 1905

Wea.

We get back to our base in the capital at 6.30 a.m.
Care for plants and do jobs.

I visit the Institute and call on Rev. Mr. Cobb.

Ther.

SUNDAY, DEC. 3, 1905

Wea.

We spend the morning in the second baranca from town in company of Prof. Tower and secure a set of *Cypselium habetrium*, Hensch.

Then at noon take train to return to Mexico in company of Mr. Parsons and family. Here we find Dr. Joaquin Villalobos who arrived from Mazatlan yesterday.

Ther.

SATURDAY 2

Wea.

Arrived at Cuernavaca station at noon we eat our lunch beside the great springs, then return along the railroad for some two miles to damp meadows to collect sets of

¹⁰¹³²
Cypselium stenobium, Hensch.
¹⁰¹³³
Cypselium pectinatum, Presl.
and a few other specimens.

Ther.

MONDAY 4

Wea.

I visit the Consulate with Rev. J. B. Grimes and the Institute with Dr. W. C. Roby.

And spend the evening with Mr. Grimes in his office.

Ther. TUESDAY, DEC. 5, 1905 Wea.

We alight from the Cuernavaca train at Ajusco Station and there about collect a lot of ¹⁰¹³⁰ Ribes barmentosa greenmanii. Then we walk thence down through a forest of Cupressus Benthamii over a stretch of black volcanic sand and down over lava fields to Tlalpam to catch on the Durango and Terceña train for the city. In the evening I call on Mrs. Field in Mexcoac.

Ther. WEDNESDAY 6 Wea.

The papers this morning give the horrible news of the killing of Mr. Parsons in San Carlos Street last evening. His coachman dashed across the tracks in front of an electric car.

Dr. Billalobos leaves at 4.00 P.M. for Oaxaca.

Ther. THURSDAY, DEC. 7, 1905 Wea.

In the forenoon I call at the Institute to bid Good Bye to Dr. Altamirano and Prof. Alcocer and to deposit there a trunk and three packs of driers.

Next I spend an hour or more with Mr. Grimes in a heart-to-heart talk.

In the evening Tranquilino and Fortino come to see us off on the El Paso train at 7.40 P.M.

Ther. FRIDAY 8 Wea.

Alvarreón Filimon leaves me to go to his home.

Our train gets two hours behind time today.

Ther. SATURDAY, DEC. 9, 1905 Wea.

Cold winds blow over the plains of Chihuahua and swiftness of killing frosts appear.

The train makes up time and reaches El Paso about 7.00 P.M. or an hour late.

I pass both customs inspections without opening my trunks, and get started forward on Santa Fe train for Chicago at 8.40 P.M.

Ther. SUNDAY 10 Wea.

Arrived at Albuquerque at daybreak shortly before 7.00 A.M., I see ice on pools of water and snow on the mountains in view to the east.

Here I wait till 10.00 A.M. for the train from California to come on and leave.

I have returned already to cloudy, clear weather.

Ther. MONDAY, DEC. 11, 1905 Wea.

As we ride over the prairie of Kansas today they are flooded with warm sunshine.

Ther. TUESDAY 12 Wea.

Another sunny day with but little snow seen.

My train arrives in Chicago about 8.30 A.M., an hour late.

I go out to Highland Park, 220 Gale Avenue, to call for an hour on my old friends, the Hibbards.

Then take train at 3.02 P.M. to continue my journey homeward.

Ther. WEDNESDAY, DEC. 13, 1905 Wea.

Reach Toronto at 8.00 a.m.
wait there an hour, then
start on.

Gain Montreal by
6.00 P.M. and go forward
from there at 8.40 P.M.

Ther. FRIDAY, DEC. 15, 1905 Wea.

I devote the day to visiting
friends and receiving visits.

Ther. THURSDAY 14 Wea.

I alight from the train
at Windsor Station at
12.30 A.M. and walk up
the hill to Charley Brown
mounds, where I sleep till
5.00 A.M.

Take breakfast there
and get into the Williams
Hall just before daylight.

Get my room put in
order and get my trunks
from the station and
unpacked.

Give up Prof. Morris.
Attend with him Horticultural
meeting.

Ther. SATURDAY 16 Wea.

I do job.

Ther. SUNDAY, DEC. 17, 1905 Wea.

I write letters,
dine at Pres. Kneebone's,
and spend the evening at
Prof. Jones's

Ther. TUESDAY, DEC. 19, 1905 Wea.

I assort correspondence

Ther. MONDAY 18 Wea.

I write letters

Ther. WEDNESDAY 20 Wea.

I work on correspondence

Ther. THURSDAY, DEC. 21, 1905 Wea.

In Middlebury today I
call on Mrs. Beineard
Miss Higley and President
Beineard.

In the afternoon I come
back to North Ferrisburgh
and spend the night at
Lindley Macomber's.

Ther. FRIDAY 22 Wea.

I start for Burlington
calling on Peter Barker
as I pass, and arriving at
10.10 a.m.

Ther. SATURDAY, DEC. 23, 1905 Wea.

Working at my corres-
pondence, etc.

Ther. SUNDAY 24 Wea.

I write to
M. Mouillefarine,
Peter Macowan,
J. Medleywood,
Wm. H. Luskdorf,
John H. McGlasheen.

Ther. MONDAY, DEC. 25, 1905 Wea.

I write letters.
And in the afternoon attend
a Christmas party at Grubbs.

Ther. TUESDAY 26 Wea.

My box of plants shipped
from El Paso having arrived
I get it up from the depot
and unpack it.

Ther. WEDNESDAY, DEC. 27, 1905 Wea.

I visit friends in Harris-
burgh.

Ther. THURSDAY 28 Wea.

I put up a collection of
fifty species of *Scrophularia*
for Dr. Bonati, a French
botanist.

Ther.

FRIDAY, DEC. 29, 1905 //

Wes.

MEMORANDA

I begin working on
my Pl. Mex., 1905 - to
arrange and number
them.

In the afternoon I
write to
Dr. Grunman
X. C. Lozano
C. E. Daxon

Ther.

SATURDAY 30

Wes.

I study a part of my
Pl. Mex., 1905, in the forenoon.
In the afternoon I go to
Lincoln taking Fenwick from
Charlotte Station.

Sunday 31
Am at the Estey home
in Lincoln.

MEMORANDA

MEMORANDA

1891

SATURDAY

1891

Went to the post office
 to see Mr. [unclear]
 and then to the [unclear]
 and then to the [unclear]
 and then to the [unclear]

Sunday 21

Went to the [unclear]
 and then to the [unclear]

Went to the [unclear]
 and then to the [unclear]
 and then to the [unclear]

Chihuahua
MEMORANDA

Meadow plain bordered by hills
1000 to 2000 feet high whose sides
are grassy glades undulating in
the hills - terraced
upon walls of red igneous
rock

and depressed here
and there by ravines which
lead up to their summits,
The more elevated of which
may be covered with a
scattered growth of sagebrush
oaks round-headed trees of
low stature.

Another.

With sides of red rock
furrowed and outcracked,
brown and dry they rise
abruptly into pinacled
rocks 2000 feet high.

MEMORANDA

Last number of Pl. Mex.
for sets: - 10,019.

Pl. Mex. miscellaneous: -

13495 - 13501 - 13714 -

Two Bird-Lovers in
Mexico

C: William Beebe
Mary Blair Beebe
In

Houghton, Mifflin & Co.

Los

Generos Vegetales Mexicanos
Entrepos

I

II

III

V

VII

X

XI

XII

XIII

Wood specimens.

17 *Erya xalapensis*, Benth

Dr. Alexander
wishes to know about
a Solanum, its name, range,
perennial or creeping
roots, fruits 5-6 lines thick
smooth, stems and veins
of leaves moderately
prickly, stellate pubescent.

Dr. G. Alexander,
El Paso,
Texas.

El Instituto Médico Nacional
266 species -

Paid.

El Museo Nacional; -
255 species @ 15cts. = \$38.25 ±
= "78.14" Paid. C. G. P.

El Museo de Tacubaya; -
266 species @ 10cts. = \$26.60
= 83.20 - Paid -
C. G. P.

CASH ACCOUNT. JANUARY.

Date.		Received.		Paid.	
2	Food			1	00
	Lincoln - Bristol (2)			70	
	B - Burlington (1)			1	10
	car fare			20	
3	Food & fruit			2	20
	millard			18	75
	Frank			2	00
	Stockings			38	
4	Am. car clamps			1	15
5	Food 50			0	0
	door mat			1	00
7	B - Rutland & R.			3	00
	R - Poultney & R.			1	05
	B - Shelburne			20	
	Bunker			25	
9	Food			30	
	Kudley 20 + medicine 25 =			45	
10	Door signs			2	50
11	Copper wire			0	0
13	Food			40	
14	Picture frames			17	70
16	M. Vesting, bare home			1	05
17	wire 25 + binder 80 =			1	05
	Food			1	40
20	Food			50	
21	Suit 3. + Mates 60, Dennis, 3			60	
23	Food			32	
24	Food			1	10
	Alfred Weiss			0	00
25	Food			20	

CASH ACCOUNT. JANUARY.

Date.		Received.		Paid.	
25	Postage			1	00
27	Food 20 + 132 =			1	52
	Table			1	25
	Castors 60 + tacks 5 =			65	
	Enamel cloth			25	
	Carter			25	

CASH ACCOUNT. FEBRUARY.

Date.		Received.	Paid.
3	Apples		25
4	alfred Weiser		2 00
6	Food (bread)		50
	alfred Weiser		15 00
7	Food (milk)		1 00
	Food (eggs)		90
10	1 pound of butter		35
13	Bread		50
15	Eggs		95
16	Eggs		1 38
18	Potatoes		60
	Butter		90
22	Katie Walker (?)		70
23	Spex		1 00
	Surando Index		5 30
24	Brass wire		50
25	Eggs		40
	Hair clipping		25
28	Food		96

CASH ACCOUNT. FEBRUARY.

CASH ACCOUNT. MARCH.

Date.		Received.	Paid.
2	Apples		25
	Naturalists Directory	2	65
6	Eggs 1.00 + Eggs 1.05	3	05
7	Eggs 2.25	2	25
	Blue		2 00
	Postage to Lown		35
12	Milk		1 00
15	Bread		50
	Eggs		2 25
20	Rubbers		55
	Potatoes		60
22	Shirt		8 00
	Bread		50
24	2 B - New York	15	26
	Hotel Vanderbilt, 42nd St.	7	00
	Guide books		50
25	Meals		50
	Fares		47
26	Meals		70
	Fares		107
27	Meals		1 50
	Fares		65
28	Meals		1 15
29	Ring for F.		7 50
	Photographs		3 00
	" C. & P.		3 00
	De Vries "Mutation"		5 00
	Apples		50

CASH ACCOUNT. MARCH.

Date.		Received.	Paid.
31	F. pen for F.		2 26
	Exp		4 00
	Interest, F. & Jones,		12 50

CASH ACCOUNT. APRIL.

Date.	Description	Received.		Paid.
1	Bread 50 + butter	90 =		1 40
	meat, etc.,			60
3	Dutch potatoes			2 50
	Pine 64 paper bag	37 + 5 =	1	06
6	Eggs 2, 20 + bread	50 =	2	70
	Milk		1	00
11	Bread			50
12	Lard			35
15	S. L. L.		40	00
	Kriton picture frames		1	50
	wire			50
	Inc			25
	Photos. L. L. L.		1	25
	Pentax			90
	Sugar.			25
16	Fat			20
17	Bread			50
18	Express from Cornell		2	50
	Helen D. Smith		75	00
	Egg		2	20
19	Apples			25
	H. L. Gaston		1	00
20	Milk		1	00
22	Bread + cancer			75
	Sugar		1	00
25	Potatoes			60
27	Bread			40
29	Dutch		1	80
	Photo. supplies + instruction		10	00
	S. L. L. fact,		6	00

CASH ACCOUNT, 57 APRIL.

CASH ACCOUNT. MAY.

Date.	Received.			Paid.
1	Eggs 3.33 + sugar 25 =		3	78
	Bread			70
	F. Lili, boots		1	25
	Butter			90
2	Ball game			30
4	Camera		20	00
	Films		1	60
6	F.L.L. gold		10	00
8	Milk		1	00
	Photos F		1	20
9	Corrosive sublimate		1	00
	Maple sugar		1	00
10	B-Middlebury = R.		1	80
	Tealors 60 + butter 90 =		1	50
16	Bread			70
18	Medicine			80
19	Mending shoes			30
22	B-Middlebury + R.		1	80
23	Eggs		3	30
25	Sugar + fruit			48
27	W. F. Xye, 4 hours.			60
29	Oat meal			25
30	Photo. films		1	20

CASH ACCOUNT. MAY.

[illegible]

CASH ACCOUNT. JUNE.

Date.	Received.	Paid.
1 Fruit		25 24
2 L.L. book, B. A. & Co.	4 91	
2 Butter, 90 + bread 52 =	1 40	
3 Milk	1 00	
6 Postage to Harvard	43 26	
Fruit	25 27	
Potatoes	50	
8 Eggs 23 + 475 =	4 98 28	
9 Bread	50	
10 Repairs to spec	50	
Paper 30 + fruit 20 =	50	
12 Postage to S. M.	83	
Post board	1 87	
Food	60	
13 Postage	50	
14 Distributing paper	14 40	
16 Staps to Kingsbury St.	1 50	
Shoes	4 00	
17 2 B - Montpelier St.	4 25	
2 M - Wells River	2 58	
2 W. R. - Barton	3 26	
Dress	3 25	
Cheese	20	
19 2 Barton - Wells River	3 26	
2 W. R. - Montpelier	2 40 40	
Food	40	
21 Postage to Burke, Davis & Co.	22	
Fruit	15	
24 L. L. C. Suit	13 13	
" suit	5 50	
" 2 hats	2 00	

CASH ACCOUNT. JUNE.

Date.	Received.	Paid.
13 13		
Repairs to suit	50	
Pantaloon	1 50	
Bread	40	
Milk	1 00	
Circus tickets	1 50	
Fruit	25	
Wine	1 05	
29 Printing bill	86 05	
P. O. Receipt	00	
Spanish dictionary	2 03	
P. O. stamps	1 00	
Fruit	50	
Food 88 + 80 + 60 =	1 48	
P. O. Rec 18	50	

CASH ACCOUNT. JULY.

Date	Received.	Paid.
1	Fruit postage	52
3	Bills 25 + 6 prs. Bloodings	1 80
	Express to Jamaica Plain	30
	Shirts, etc., F. L. L.	5 65
	Balise "	11 00
	Shoes "	5 50
	Syringes, etc., "	4 25
	Rings "	10 00
	Watch chain, C. S. P.,	25
7	Watch repairing	1 50
	Fruit 50 + bush + butter 60 =	1 90
	Cheese 22 + 2, 85 =	3 07
	(S. J. H.) Keston - Burlington	3 13
	Box lumber	3 89
8	Repairing shoes (2 pairs)	1 80
10	Food	45
12	Food	1 25
13	Bread	40
14	Fright to New York	2 15
	Subscription to Phoenix	1 00
	Carters	1 75
18	Circus expenses (4)	5 55
	Fruit	85
19	Fruit	10 50
	Suit - 12 + hat - 1.00 =	13 00
	Pass case 1.25 + envelopes	1 65
	Blanking 28 + shoe strings 15 =	42
	J. drops	80
20	R. N. Harrisburgh	20
21	Charlotte - B.	20
	Fruit	50

CASH ACCOUNT. JULY.

Date	Received.	Paid.
22	B - Charlotte OK	1 20
	Fruit 25 + butter 20 + bush 30 =	55
	Collars, straps, etc.,	1 25
	Thick rope	55
24	Envelopes 53 + pencils 10 + etc. 25 =	98
	Photofilms	4 40
	Cheese	3 09
	Pass holder	90
	Carter	75
	Baggage excess	7 00
	2 B - El Paso, Texas.	110 90
25	Fruit 20 + Hotel, Chicago, 150 =	1 70
26	Food	2 15
	Museum 50 + fares 30 =	80
	Camera case	1 50
	Shoe	1 50
	Sleeper ticket	4 75
28	Food 50 + 30 =	80
	Trip to porter	1 00
	F. L. L. (exp.)	2 00
30	Hotel El Paso	1 50
31	Baggage storage 75 + cartage	1 00
	Food 60 + 40 + 170 =	1 37
	Baggage excess	22 50
31	F. L. L. wages in full to date - - -	53 30

CASH ACCOUNT. AUGUST.

Date	Received.	Paid.
1 F. L. C. cash		16 20
F. L. C. gastos		20 00
2 Room rent to Sept. 1st	12 00	
Porters	3 00	
Food, etc.	1 60	
4 Food coco (rice) 4.25	1 84	
Ch. - Honey (bigger)	2 68	
Room Honey	1 00	
7 Food 55 + fares 12 =	1 00	
8 Food (+ charity 1.00)	1 58	
9 Food 14 + 2.37 =	2 51	
Fares	12	
Fortino, watch	3 00	
Bones for F. L. C.	2 00	
10 Food 14 + fares 24 =	58	
11 Food	54	
12 Food 14 + fares 58 =	72	
13 Food	14	
14 Food	30	
15 Food	3 04	
Fares	12	
16 Food	78	
Fares	18	
17 Food 78 + fares 12 =	90	
18 Food	30	
Hotel Venocaria, S. J., L. R.	2 00	
19 Food 37 + papers 20 =	57	
20 Food	64	
Gamsoan	4 50	
Room, Honey	1 00	

CASH ACCOUNT. AUGUST.

Date	Received.	Paid.
21 Food		15
F. L. C. P		2 00
23 Food		2 70
F. L. C. P		1 00
Postage stamps		60
24 Food		90
25 Food 21 + fares 12 =		33
26 Food		54
27 Food		21
F. L. C. cash	20 00	
28 Food 21 + 6 + fares 12 =		39
Room rent till Sept. 30	12 00	
Contribution for pump	4 00	
29 Food		2 28
Fares		24
2 Theater		1 60
30 Food		14
31 Food 21 + 6		
Fares		12
Postage stamps		1 00
F. L. C. P		1 00

CASH ACCOUNT. SEPTEMBER.

Date.	Received.	Paid.
1	Food 38 + fares 84 =	122
2	Charity to Mammala	179
	Food 71 + fares 12 =	83
3	Food 133 + fares 15 =	151
	Charity to a consumption	400
	3 theater tickets	120
4	Food	21
5	Food	420
6	Food	106
7	Food	23
8	Food	75
9	Food	24
10	Food	400
	Dressing	37
	Bullfight 3.00 + fares 52 =	352
11	Food	20
12	Food	91
13	Food	45
	D.L.L. @ 2.50 + 6.00 =	750
14	Food 21 + fares 44 =	65
15	Food	78
	Tranquilino Duran, charity,	1600
16	Food 33 + fares 24 =	57
	Pencils	22
17	Food 76 + fares 64 =	140
	Charity Spanish.	175
18	Food	40
19	Food	422
	D.L.L. @	500
20	Food 74 - 42 =	116
21	Food	42

CASH ACCOUNT. SEPTEMBER.

Date.	Received.	Paid.
22	Food	62
23	Food	74
	Carters for trunk	235
	Room, Jacala,	600
24	Food	125
	D.L.L. cash for Octavio	3000
25	Food	108
	Candles	50
26	Food	60
	Cargador	50
	Room, Balsas,	200
27	Food	27
28	Room, Iguala,	50
	Food	35
29	Food	40
	Cargador	50
	Dr. Villalobos' fee	491
30	Food	136
	Room rent to Nov. 1st,	1200
	Fares	12
	D.L.L. @	100

CASH ACCOUNT. OCTOBER.

Date.		Received.	Paid.
1	Food 146 F.L.C.		1 00
2	Food 1.46 + fare 16 = Postage F.L.C.P. Porter	1 22 1 00 50 25	
3	Food 20 + porter 30 =	50	
4	Food 4	44	
5	Food	75	
6	Food 50 Hotel, Saltillo, Coach + baggage Baggage 25 + food 30 =	60 6 00 75 55	
7	Coach to mts. etc.	4 00	
9	Hotel Gen. Cepeda,	12 00	
10	Hotel Paris, Varascon Food 25 + 100 =	3 00 1 25	
10	Hot	50	
11	Food 1.08 + 1.25 + 38 = Hacienda, baggage, etc.	2 63 75	
12	Paral - Sanbia + R. Food	5 40 80	
13	Food Paral - Sanbia + R. (7)	57 5 40	
14	Food	86	
15	Food	93	
16	Food	1 23	
	Hotel Sanbia,	10 00	
17	Food 77 + 100 =	1 77	
18	Food Barber	1 56 25	

CASH ACCOUNT. OCTOBER.

Date.		Received.	Paid.
20	Hotel, Sanbia, Food	5 50 1 17	
	Cargador	25	
21	Food 92 + 10 =	1 02	
22	Food 48 + Casa Fuentes, Parra	18 75	
	Express to Mexico City	4 75	
	Cargador 25 + baggage + food	1 25	
	F.L.C. (fuel)	6 00	
	Hotel, Jimules	1 50	
23	Food	35	
24	Food 55 + 75 =	1 30	
25	Food	4 31	
	Porters	1 25	
26	Food		
27	Food	20	
28	Food	21	
	M. - Varascon + R.	1 60	
29	Food 71 + 137 = M. - Corn + R. F.L.C. (gambling)	1 08 75 6 00	
30	Food	2 18	
31	Food Orchids	1 12 75	

CASH ACCOUNT. NOVEMBER.

Date.		Received.	Paid.
1	Food		95
	Hotel Mruapan,		7 00
2	Cargador		75
	Food 40 + 25 =		65
	Hotel boy		1 00
3	Food 71 + farm 24 =		95
	Photos, etc.,		1 50
	D.L.L. (C)		5 00
4	Baggage express		50
4	Food 6. 21 + 15 =		6 36
	Cargador		75
5	Food		20
6	Food		25
	Coach to mt., etc.,		5 00
	Cargador		25
	Hotel, Daltillo,		3 00
7	Food		25
8	Food		30
	Baggage express		62
9	Food		2 47
10	Room rent to Nov. 15		6 00
	Cargador		75
	Food		71
	Mending spec-boos		50
11	Food 16 + 24 + 25 =		75
	Cargador's		1 00
12	Food		65
	Gambler		1 00
13	Food 1.00 + 25 =		1 25
14	Food 50 +		
	Help 150 + plant, 2.00 =		3 50

CASH ACCOUNT. NOVEMBER.

Date.		Received.	Paid.
15	Food		1 00
	40 Oncidium plants		4 00
	Helper		75
	Room, Mruapan,		5 00
	Cuyetano Moreno,		1 00
16	Cargador no. 11,		75
	D.L.L. (C)		1 00
17	Food 2.22 + 31 =		2 53
	Cargador		75
18	Food 57 + candles, 40 =		1 27
	Joaquin Villalobos		35 00
19	Food		91
	DO		2 00
20	Food 61 + 38 =		1 49
	Tele. to Mazatlan		1 72
	Cargador 75 + washing 25 =		1 00
22	D.L.L. (C)		3 20
23	Clothing 41.92 + cart. 120 =		43 22
	Room 4.00 + meal 250 + food 2 =		5 50
	Rev. etc. 130 + cart. 150 =		2 80
	Fright to Burlington (Mex)		9 00
24	Fountain pen		4 00
26	Cargador 75 + food 30 =		1 00
27	Food 3.00 + charity, 75 =		3 75
	DO (C)		3 00
	Cargador		37
28	Food		25
29	Food 52 + farm 32 =		84
30	Food 29 + 67 =		96
	Hotel 1.25 + porter 35 =		1 60
	Room rent to date		6 00

CASH ACCOUNT. DECEMBER.

Date.		Received.	Paid.
1	Food		8 08
	Caryador		40
	F.L.L. (Prasidia)	10 00	
2	Food	1 00	
3	Food 50 + room, bus, 60 =	1 10	
	F. Chute	1 00	
4	Food 1.28 + 1.75 =	3 03	
5	Food 37 + fares 54 =	91	
6	Food 39 + fares 12 =	51	
	Charity	1 00	
	Joagim billalobos	91 00	
7	Food	1 58	
	Caryadores	3 35	
	Room rent	9 00	
	Stove	4 00	
	Baggage excess	18 00	
	Charity	3 00	
	F.L.L.	1 00	
8	Food	20	
	F.L.L.	30 00	
9	El Paso - Burlington	59 35	
	Baggage excess	13 20	
10	Birth in sleigh (303)	4 25	
9	Food 60 + bus 1.20 =	1 85	
10	Porter's tip	1 00	
12	Chicago to Highland Park	1 40	
	Smelter	45	
14	Carter, Burlington	75	
15	Food 50 + fares 10 =	60	
16	Food	4 24	
	Knives 50 + barber 25 =	75	

CASH ACCOUNT. DECEMBER.

Date.		Received.	Paid.
16	F.L. Lozano	125 00	
18	Food	1 35	
19	Food 60 +	60	
	F.F. G.	41 00	
	Sur cap (W. H.)	11 00	
	Shoes	3 00	
20	Food	35	
	L. Jones	158 35	
	Medicine	50	
21	B. - Middlebury	1 00	
22	M. - B. via N. F.	1 10	
23	Food	40	
	Sled for Fairview	1 50	
26	Bright from Chicago	2 98	
	Postage	1 08	
27	B. - N. Ferrisburgh & R.	90	
	Food	20	
	Polly Chase	2 00	
28	Food 70 + fares 10 =	80	
29	Food	55	
30	B. - N. Haven Junction & R.	1 15	
	N. H. J. - Bristol & R.	60	
	N. H. J. - Bristol (1/2)	18	
	Fruit + nuts	1 85	
Jan.			
2	Bristol - Burlington (1/2)	60	
	Barber Food 1.00	15	
	Overcoat, Boston, Mass.	4 00	
	Plaster 70 + ink 10 =	80	
	P. O. Box, 14	50	

SUMMARY OF CASH ACCOUNT.

BILLS PAYABLE. 11 JANUARY.

Date.	Description	Received.		Paid.		NAME	Dollars.	Cts.
JAN.	3 Horses kept (H. F. E.)			1	00			
	5 Book for B. F. E.			2	50			
	6 Spon. repairs				75			
FEB.	Watch for boy			4	00			
	Watch chain " "				50			
MAR.	Food				75			
	Postage				60			
APRIL	8 Laundry				20			
	9 B - Boston S. R.			9	28			
MAY.								
JUNE.								
JULY.								
AUG.								
SEPT.								
OCT.								
NOV.								
DEC.								

RECEIVABLE. 11 JANUARY.

BILLS PAYABLE, FEBRUARY.

[illegible]

BILLS PAYABLE. MARCH.

[illegible]

BILLS PAYABLE, 30 DECEMBER,

MEMORANDA.

[illegible]

NAME. Prof. B. L. Robinson,
STREET, No. 3, Clement Circle,
CITY. Cambridge, Mass.
NAME. Geo. E. Davenport,
STREET, No. 67, Fellowship, West
CITY. Medford, Mass.
NAME. Chas. L. Smith, M. D.,
STREET, No. Iowa Building,
CITY. Sioux City, Iowa.
NAME. Herbert H. Smith,
STREET, No. c/o Geo. H. Chapp,
CITY. 325 Water St., Pittsburgh, Pa.
NAME.
STREET, No.
CITY.
NAME. Mrs. Parsons's sister
of Mrs. Syner Clarkson,
STREET, No. 26, West 50th Street
CITY. New York.
NAME. Hon. Warren H. Higley \$5.00
STREET, No. 45, Broadway
CITY. New York.
NAME. Rev. Russell Higley \$3.00
STREET, No. Birmingham
CITY. Ala.
NAME.
STREET, No.
CITY.
NAME.
STREET, No.
CITY.

ADDRESSES.

NAME.

STREET, No.

CITY.

NAME.

STREET, No.

CITY.

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CITY.

ADDRESSES.

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 STREET, No. *En ayuda*
 CITY. *South W. Hester*
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 STREET, No. *West Lincoln.*
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NAME. *Cayetano Moreno,*
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